



Yealink SIP-T4X IP Phones Auto Provisioning Guide

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Summary of Changes

This section describes the changes to this guide for each release and guide version.

Changes for Release 71, Guide Version 71.150

This version is updated to incorporate SIP-T41P as one of the SIP-T4X device models. The following section is new for this version:

- [Customizing an LCD Logo](#) on page 13
- [Customizing a Logo File Using PictureExDemo](#) on page 53

Major updates have occurred to the following section:

- [Description of Configuration Parameters in CFG Files](#) on page 55

Changes for Release 71, Guide Version 71.90

Major updates have occurred to the following section:

- [Description of Configuration Parameters in CFG Files](#) on page 55

Changes for Release 71, Guide Version 71.80

This version is updated to incorporate SIP-T42G as one of the SIP-T4X device models.

Major updates have occurred to the following sections:

- [Obtaining Configuration Files](#) on page 3
- [Customizing Resource Files](#) on page 11
- [Description of Configuration Parameters in CFG Files](#) on page 55

Introduction

Yealink SIP-T4X IP phones are full-featured telephones that can be plugged directly into an IP network and can be used easily without manual configuration.

This guide provides instructions on how to provision Yealink SIP-T4X IP phones with the minimum settings required. Yealink SIP-T4X IP phones support FTP, TFTP, HTTP, and HTTPS protocols for auto provisioning and are configured by default to use the TFTP protocol.

The purpose of this guide is to serve as a basic guidance for provisioning Yealink SIP-T4X IP phones, including:

- SIP-T46G
- SIP-T42G
- SIP-T41P

The auto provisioning process outlined in this guide applies to Yealink SIP-T4X IP phones running firmware version 71 or later.

Getting Started

This section provides instructions on how to get ready for auto provisioning. The auto provisioning process discussed in this guide uses the TFTP server as the provisioning server.

To begin the auto provisioning process, the following steps are required:

- [Obtaining Configuration Information](#)
- [Managing Configuration Files](#)

Obtaining Configuration Information

Obtaining Configuration Files

Before beginning provisioning, you need to obtain configuration files. There are 2 configuration files both of which are CFG-formatted. We call these two files Common CFG file and MAC-Oriented CFG file. The phone tries to download these CFG files from the server during provisioning.

The MAC-Oriented CFG file is only effectual for the specific phone. It uses the 12-digit MAC address of the phone as the file name. For example, if the MAC address of the phone is 0015651130F9, the MAC-Oriented CFG file name must be 0015651130F9.cfg. However, the Common CFG file is effectual for all the phones of the same model. It uses a fixed name "y0000000000XX.cfg" as the file name, where "XX" equals to the hardware version of the phone model.

The names of the Common CFG file for SIP-T4X IP phones are:

Phone Model	Common Configuration File
SIP-T46G	y000000000028.cfg
SIP-T42G	y000000000029.cfg
SIP-T41P	y000000000036.cfg

You can ask the distributor or Yealink FAE for configuration files. The IP phones can only recognize configuration files using UTF-8 or ANSI encoding.

Obtaining Phone Information

Before beginning provisioning, you also need the phone information. For example, MAC address and the SIP account information of the phone.

MAC Address: The unique 12-digit serial number of the phone. You can obtain it from the bar code on the back of the phone.

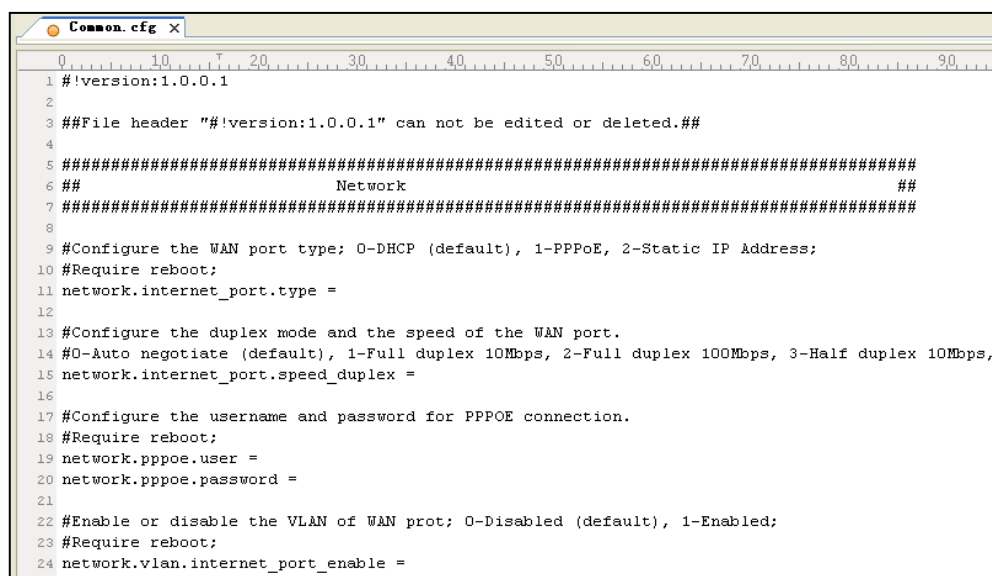
SIP Account Information: This may include SIP credentials such as user name, password and address of the registration server. Ask your system administrator for SIP account information.

Managing Configuration Files

Auto provisioning enables IP phones to update themselves automatically via downloading Common CFG and MAC-Oriented CFG files. Before beginning provisioning, you may need to edit and customize your configuration files. For more information on configuration parameters in configuration files, refer to [Description of Configuration Parameters in CFG Files](#) on page 55.

Editing Common CFG File

Common CFG file contains configuration parameters which apply to phones with the same model, such as language, time and date.



```

Common.cfg x
1 #!version:1.0.0.1
2
3 ##File header "#!version:1.0.0.1" can not be edited or deleted.##
4
5 #####
6 ##                               Network                               ##
7 #####
8
9 #Configure the WAN port type; 0-DHCP (default), 1-PPPoE, 2-Static IP Address;
10 #Require reboot;
11 network.internet_port.type =
12
13 #Configure the duplex mode and the speed of the WAN port.
14 #0-Auto negotiate (default), 1-Full duplex 10Mbps, 2-Full duplex 100Mbps, 3-Half duplex 10Mbps,
15 network.internet_port.speed_duplex =
16
17 #Configure the username and password for PPPoE connection.
18 #Require reboot;
19 network.pppoe.user =
20 network.pppoe.password =
21
22 #Enable or disable the VLAN of WAN port; 0-Disabled (default), 1-Enabled;
23 #Require reboot;
24 network.vlan.internet_port_enable =
25

```

The line beginning with “#” is considered to be a comment.

The file header “#!version:1.0.0.1” is not a comment and must be placed in the first line. It cannot be edited or deleted.

The parameters commonly edited in the Common CFG file are described as follows (take the SIP-T46G IP phone as an example):

```

#####
##                               Common CFG File                               ##
#####

```

```

#!version:1.0.0.1
##File header "#!version:1.0.0.1" cannot be edited or deleted, and must be placed in
the first line.

#Configure the WAN port type; 0-DHCP (default), 1-PPPoE (not applicable to
SIP-T42G/T41P), 2-Static IP Address
#Require reboot

network.internet_port.type = 0

#Configure the transmission mode and the speed of the WAN port.
#0-Auto negotiate (default), 1-Full duplex 10Mbps, 2-Full duplex 100Mbps, 3-Half
duplex 10Mbps, 4-Half duplex 100Mbps, 5-Full duplex 1000Mbps (not applicable to
SIP-T41P);

network.internet_port.speed_duplex =

#Enable or disable Plug and Play feature; 0-Disabled, 1-Enabled (default)

auto_provision.pnp_enable = 1

#Configure the domain name of the PnP server.

auto_provision.pnp_domain_name =

#Configure the value (manufacturer of the device) of the PnP subscribe message.

auto_provision.pnp_event_vendor =

#Enable or disable the Power On mode for auto provisioning;
#0-Disabled, 1-Enabled (default);

auto_provision.mode = 1

#Enable or disable the IP phone to check the new configuration repeatedly.

auto_provision.repeat.enable = 0

#Configure the interval (in minutes) for the phone to check new configuration files. It
ranges from 1 to 43200, the default value is 1440.

auto_provision.repeat.minutes = 1440

# Enable or disable the IP phone to check the new configuration weekly.
#0-Disabled (default), 1-Enabled;

auto_provision.weekly.enable = 0

#Configure the start time of the day for the phone to check new configuration files. The
default value is 00:00.
#If the desired start time of the day is seven forty-five a.m., the value format is 07:45.

auto_provision.weekly.begin_time = 00:00

#Configure the end time of the day for the phone to check new configuration files. The

```

default time is 00:00.

#If the desired end time of the day is seven forty-five p.m., the value format is 19:45.

auto_provision.weekly.end_time = 00:00

#Configure the day of week for the phone to check new configuration files. The default value is 0123456.

#0-Sunday,1-Monday,2-Tuesday,3-Wednesday,4-Thursday,5-Friday,6-Saturday;

#If the desired week is Monday, Tuesday and Wednesday, the value format is 012.

auto_provision.weekly.mask = 0123456

#Configure the URL of the auto provisioning server.

auto_provision.server.url =

#Configure the user name and password for authentication.

auto_provision.server.username =

auto_provision.server.password =

#Enable or disable DHCP option mode; 0-Disabled, 1-Enabled (default);

auto_provision.dhcp_option.enable =

#Configure the value (manufacturer of the device) of DHCP option 60.

auto_provision.dhcp_option.option60_value =

#Configure the custom DHCP option value. It ranges from 128 to 254.

auto_provision.dhcp_option.list_user_options =

#Set the AES key used for decrypting the Common CFG file

auto_provision.aes_key_16.com =

#Set the AES key used for decrypting MAC-Oriented CFG file

auto_provision.aes_key_16.mac =

#Set the language used on the web user interface

#The valid values are: English, Chinese, Turkish, Portuguese, Spanish, Italian, French

#and German. Chinese is not applicable to SIP-T42G/T41P

lang.wui =

#Set the language used on the LCD screen

#The valid values are: English (default), Chinese_S, Chinese_T, German, French, Turkish,

#Italian, Polish, Spanish and Portuguese. Chinese_S and Chinese_T are not applicable

#to SIP-T42G/T41P

lang.gui = English

Enable or disable the web server access for HTTPS; 0-Disabled, 1-Enabled (default);

#Require reboot

```
wui.https_enable = 1
```

```
# Enable or disable the web server access for HTTP; 0-Disabled, 1-Enabled (default);
#Require reboot
```

```
wui.http_enable = 1
```

```
#Set the HTTP port (80 by default)
#Require reboot
```

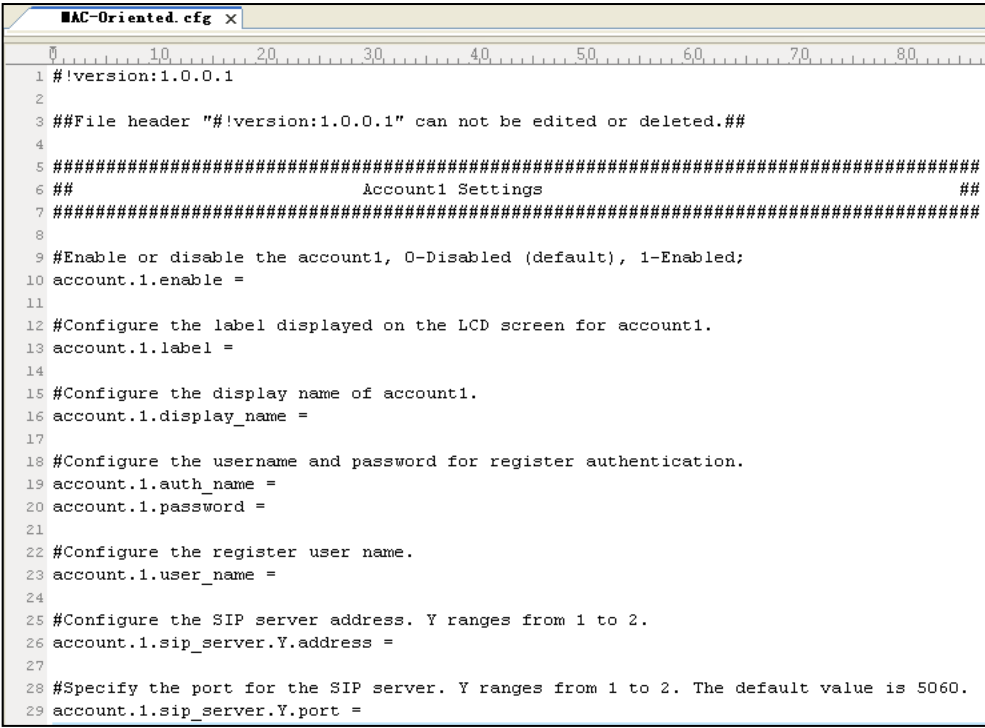
```
network.port.http = 80
```

```
#Set the HTTPS port (443 by default)
#Require reboot
```

```
network.port.https = 443
```

Editing MAC-Oriented CFG File

MAC-Oriented CFG file contains configuration parameters which are expected to be updated per phone, such as the registration information.



```
MAC-Oriented.cfg x
1 #!version:1.0.0.1
2
3 ##File header "#!version:1.0.0.1" can not be edited or deleted.##
4
5 #####
6 ##          Account1 Settings          ##
7 #####
8
9 #Enable or disable the account1, 0-Disabled (default), 1-Enabled;
10 account.1.enable =
11
12 #Configure the label displayed on the LCD screen for account1.
13 account.1.label =
14
15 #Configure the display name of account1.
16 account.1.display_name =
17
18 #Configure the username and password for register authentication.
19 account.1.auth_name =
20 account.1.password =
21
22 #Configure the register user name.
23 account.1.user_name =
24
25 #Configure the SIP server address. Y ranges from 1 to 2.
26 account.1.sip_server.Y.address =
27
28 #Specify the port for the SIP server. Y ranges from 1 to 2. The default value is 5060.
29 account.1.sip_server.Y.port =
```

The parameters commonly edited in the MAC-Oriented CFG file are described as follows:

```
#####
##          MAC-Oriented CFG File          ##
#####
#!version:1.0.0.1
```

##The file header "#!version:1.0.0.1" is not a comment and must be placed in the first line. It cannot be edited or deleted.

#Account 1 settings

#Enable or disable the account1, 0-Disabled (Default), 1-Enabled

account.1.enable =

#Configure the label displayed on the LCD screen for account1

account.1.label =

#Configure the display name of account 1

account.1.display_name =

#Configure the user name and password for register authentication

account.1.auth_name =

account.1.password =

#Configure the register user name

account.1.user_name =

#Configure the SIP server 1 address and port (5060 by default)

account.1.sip_server.1.address =

account.1.sip_server.1.port =

#Configure the SIP server 2 address and port (5060 by default)

account.1.sip_server.2.address =

account.1.sip_server.2.port =

Account 2 settings

#Enable or disable the account2, 0-Disabled (Default), 1-Enabled

account.2.enable =

#Configure the label displayed on the LCD screen for account 2

account.2.label =

#Configure the display name of account2

account.2.display_name =

#Configure the user name and password for register authentication

account.2.auth_name =

account.2.password =

#Configure the register user name

account.2.user_name =

#Configure the SIP server 1 address and port (5060 by default)

account.2.sip_server.1.address =

account.2.sip_server.1.port =

#Configure the SIP server 2 address and port (5060 by default)

account.2.sip_server.2.address =

```
account.2.sip_server.2.port =  
  
# Account 3 settings  
  
#Enable or disable the account3, 0-Disabled (Default), 1-Enabled  
account.3.enable =  
  
#Configure the label displayed on the LCD screen for account 3  
account.3.label =  
  
#Configure the display name of account3  
account.3.display_name =  
  
#Configure the user name and password for register authentication  
account.3.auth_name =  
account.3.password =  
  
#Configure the register user name  
account.3.user_name =  
  
#Configure the SIP server 1 address and port (5060 by default)  
account.3.sip_server.1.address =  
account.3.sip_server.1.port =  
  
#Configure the SIP server 2 address and port (5060 by default)  
account.3.sip_server.2.address =  
account.3.sip_server.2.port =  
  
#Account 4-6 is only applicable to the SIP-T46G IP phone.  
  
# Account 4 settings  
  
#Enable or disable the account4, 0-Disabled (Default), 1-Enabled  
account.4.enable =  
  
#Configure the label displayed on the LCD screen for account 4  
account.4.label =  
  
#Configure the display name of account4  
account.4.display_name =  
  
#Configure the user name and password for register authentication  
account.4.auth_name =  
account.4.password =  
  
#Configure the register user name  
account.4.user_name =  
  
#Configure the SIP server 1 address and port (5060 by default)  
account.4.sip_server.1.address =  
account.4.sip_server.1.port =  
  
#Configure the SIP server 2 address and port (5060 by default)
```

```

account.4.sip_server.2.address =
account.4.sip_server.2.port =

# Account 5 settings

#Enable or disable the account5, 0-Disabled (Default) 1-Enabled
account.5.enable =

# Configure the label displayed on the LCD screen for account 5
account.5.label =

#Configure the display name of account5
account.5.display_name =

#Configure the user name and password for register authentication
account.5.auth_name =
account.5.password =

#Configure the register user name
account.5.user_name =

#Configure the SIP server 1 address and port (5060 by default)
account.5.sip_server.1.address =
account.5.sip_server.1.port =

#Configure the SIP server 2 address and port (5060 by default)
account.5.sip_server.2.address =
account.5.sip_server.2.port =

# Account 6 settings

#Enable or disable the account6, 0-Disabled (Default), 1-Enabled
account.6.enable =

#Configure the label displayed on the LCD screen for account 6
account.6.label =

#Configure the display name of account6
account.6.display_name =

#Configure the user name and password for register authentication
account.6.auth_name =
account.6.password =

#Configure the register user name
account.6.user_name =

#Configure the SIP server 1 address and port (5060 by default)
account.6.sip_server.1.address =
account.6.sip_server.1.port =

#Configure the SIP server 2 address and port (5060 by default)

```



```

account.6.sip_server.2.address =
account.6.sip_server.2.port =

#Configure the static IP address, submask, gateway address and DNS server address.
#Require reboot

network.internet_port.ip = 192.168.1.10
network.internet_port.mask = 255.255.255.0
network.internet_port.gateway = 192.168.1.1
network.primary_dns = 202.101.103.55
network.secondary_dns = 202.101.103.54

```

Encrypting Configuration Files

To protect against unauthorized access and tampering of sensitive information (e.g., login passwords, registration information), you can encrypt configuration files using Yealink Configuration Conversion Tool. AES keys must be 16 characters and the supported characters contain: 0 ~ 9, A ~ Z, a ~ z, and the special characters # \$ % * +, - . : = ? @ [] ^ _ { } ~. For more information on how to encrypt configuration files, refer to *Yealink Configuration Conversion Tool User Guide*.

AES keys must be configured on the phone before the auto provisioning process. AES keys are configurable via web user interface at the path: **Settings->Auto Provision->Common AES Key** (and **MAC-Oriented AES Key**).

Customizing Resource Files

When configuring some particular features, you may need to upload resource files to IP phones, such as personalized ringtone file, language package. Yealink provides some resource file templates for the particular features. Ask the distributor or Yealink FAE for resource file templates. The following provides information on how to customize resource files and specify the access URL for the resource files.

Customizing a Ringtone

The IP phones have built-in system ringtones. You can change the ring type, or customize a ringtone and upload it to the phone via auto provisioning.

The ringtone file must be PCMU audio format, mono channel, 8K sample rate and 16 bit resolution.

The ringtone file format must be *.wav.

The ringtone file uploaded must be within 100KB.

```
#####
```

```
##          Configure the access URL of the customized ringtone          ##
```

```
#####
```

```
ringtone.url =
```

```
#Delete all the custom ringtones uploaded through auto provisioning
```

```
ringtone.delete = http://localhost/all
```

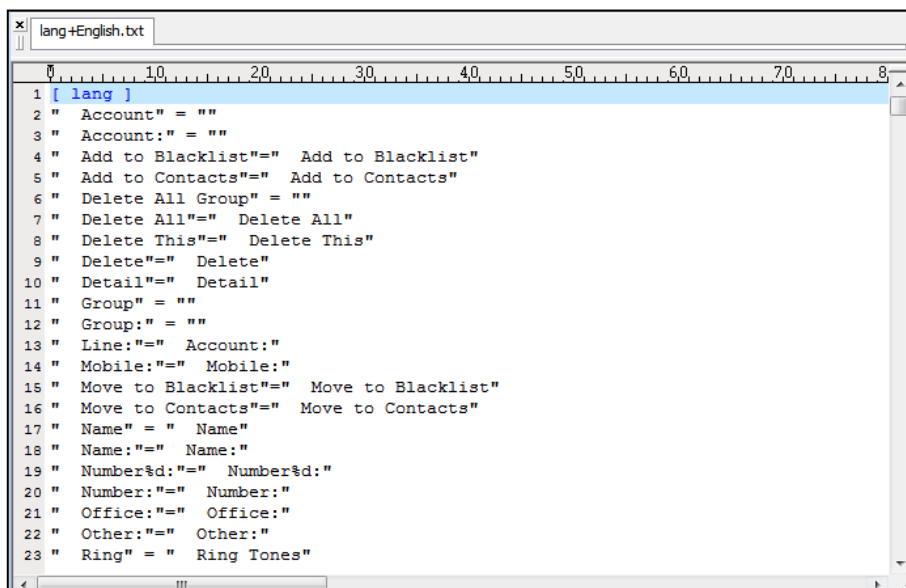
For example, enter “tftp://192.168.1.100/Ring9.wav” in the “ringtone.url =” field. During the auto provisioning process, the phone connects to the provisioning server “192.168.1.100”, and downloads the ringtone file “Ring9.wav”.

For more information on customizing a ringtone file, refer to [Customizing a Ringtone Using Cool Edit Pro](#) on page 52.

Customizing an LCD Language

You can modify the language translation for the phone user interface, but you cannot add new language to the phone. To modify the existing language translation, you need to edit the language translation file, upload it to the provisioning server, and then specify the access URL in the configuration file.

The following figure shows a portion of the English language translation file:



```
#####
```

```
##          Configure the access URL of the LCD language file          ##
```

```
#####
```

```
gui_lang.url =
```

```
#Delete all custom languages through auto provision
```

```
gui_lang.delete = http://localhost/all
```

For example, enter “tftp://192.168.1.100/lang+English.txt” in the “gui_lang.url =” field.

During the auto provisioning process, the phone connects to the provisioning server “192.168.1.100”, and downloads the language file “lang+English.txt”.

Available languages may vary between different firmware versions.

Do not rename the language file.

Customizing an LCD Logo

Logo customization allows unifying the IP phone appearance or displaying a custom image on the idle screen such as a company logo, instead of the default system logo. Logo is not applicable to the SIP-T46G and SIP-T42G IP phones. The logo file format must be .dob, and the resolution of the SIP-T41P IP phone is 192*64 graphic.

Ask the distributor or Yealink FAE for the logo file, or you can customize a *.dob logo file. Upload the logo file to the provisioning server and then specify the access URL in the configuration file:

```
#####
##          Configure the access URL of the Logo File          ##
#####
#(For SIP-T41P IP phone only)

lcd_logo.url =
#lcd_logo.delete = http://localhost/all
#Delete all custom logo files

lcd_logo.delete =
```

For example, enter “tftp://192.168.1.100/logo.dob” in the “lcd_logo.url =” field. During the auto provisioning process, the phone connects to the provisioning server “192.168.1.100”, and downloads the logo file “logo.dob”.

To use the custom logo, you also need to configure the following parameter:

```
#Configure the logo mode (For SIP-T41P IP phone only).
#0-Disabled, 1-System logo (default), 2-Custom logo

phone_setting.lcd_logo.mode = 2
```

After auto provisioning, you will find that the custom logo appears on the LCD screen.

For more information on customizing a logo file, refer to [Customizing a Logo File Using PictureExDemo](#) on page 53.

Customizing a Wallpaper

Yealink SIP-T46G IP phones allow you to customize the wallpaper displayed on the LCD screen. Wallpaper feature is not applicable to the SIP-T42G/T41P IP phones.

The following table lists the wallpaper image format and resolution for the SIP-T46G IP phone:

Phone Model	Wallpaper Image Format	Resolution	Size
SIP-T46G	.jpg/.png/.bmp	<=480*272	<=5Mbs

Upload the wallpaper image to the provisioning server and then specify the access URL in the configuration file:

```
#####
##          Configure the access URL of the wallpaper          ##
#####
```

wallpaper_upload.url =

For example, enter "tftp://192.168.1.100/wallpaper.jpg" in the "wallpaper_upload.url =" field. During the auto provisioning process, the phone connects to the provisioning server "192.168.1.100", and downloads the wallpaper image "wallpaper.jpg".

To use the custom wallpaper, you also need to configure the following parameter.

```
#Configure the custom image (e.g., wallpaper.jpg) as phone wallpaper.
```

phone_setting.backgrounds = Config:wallpaper.jpg

Customizing a Local Contact File

The IP phones allow you to upload contact data in batch via auto provisioning. You can create multiple contacts using the supplied local contact template file.

When editing the local contact template file, learn the following:

- Add groups between <root_group> and </root_group>.
- Add local contacts between <root_contact> and </root_contact>.
- When specifying the desired line for the contact, valid values are -1 and 0~5, -1 stands for Auto, and 0~5 stand for line1~line6.
- When specifying a ringtone for the contact and the group, valid values are Auto, Resource:RingN.wav (system ringtone, integer N ranges from 1 to 8) and Custom:Name.wav (customized ringtone).
- When specifying the group for the contact, valid values are the group names (existing or added groups).

To customize a local contact file:

1. Open the template file using an ASCII editor.
2. For each group that you wish to add, add the following string to the file. Each starts on a separate line:

```
<group display_name="" ring=""/>
```

Where:

`display_name=""` specifies the name of the group.

`ring=""` specifies the ringtone for this group.

- For each contact that you wish to add, add the following string to the file. Each starts on a separate line:

```
<contact display_name="" office_number="" mobile_number="" other_number=""
line="" ring="" group_id_name="" default_photo=""/>
```

Where:

`display_name=""` specifies the name of the contact (This value cannot be blank or duplicated).

`office_number=""` specifies the office number of the contact.

`mobile_number=""` specifies the mobile number of the contact.

`other_number=""` specifies the other number of the contact.

`line=""` specifies the line for the contact.

`ring=""` specifies the ringtone for the contact.

`group_id_name=""` specifies the group you want to add the contact to.

`default_photo=""` specifies the photo for the contact (for SIP-T46G IP phone).

- Specify the values within double quotes.
- Save the change.

After editing the local contact template file, upload the file to the provisioning server and then specify the access URL in the configuration file.

The following shows an example of a local contact file used for SIP-T4X IP phones:

```
<root_group>
  <group display_name="All Contacts" ring="" />
  <group display_name="Company" ring="Resource:Ring1.wav" />
  <group display_name="Family" ring="Auto" />
  <group display_name="Friend" ring="" />
  <group display_name="Blacklist" ring="" />
  <group display_name="Lin" ring="Resource:Ring2.wav" />
</root_group>
<root_contact>
  <contact display_name="Jone" office_number="1101"
mobile_number="26584933" other_number="1254856" line="0" ring="Auto"
group_id_name="Company"
default_photo="/phone/resource/default/default_contact_image.png"
is_favorate="0" />
  <contact display_name="Joy" office_number="1000"
```

```
mobile_number="10244588666" other_number="059257000" line="0"
ring="Auto" group_id_name="Lin" default_photo="" is_favorite="0" />
</root_contact>
```

```
#####
##                               Upload local contact file                               ##
#####
```

local_contact.data.url =

For example, enter "tftp://192.168.1.100/contact.xml" in the "local_contact.data.url =" field. During the auto provisioning process, the phone connects to the provisioning server "192.168.1.100", and downloads the contact file "contact.xml".

Yeastar IP phones support both *.xml and *.csv formats.

Customizing a Replace Rule File

You can create replace rules directly in the configuration files, or create multiple replace rules using the supplied replace rule template file. The existing replace rules on the phones will be overwritten by the downloaded replace rules.

When editing the replace rule template file, learn the following:

- <dialrule> indicates the start of the template file and </dialrule> indicates the end of the template file.
- Create replace rules between <dialrule> and </dialrule>.
- When specifying the desired line(s) to apply the replace rule, valid values are 0 and line ID. The digit 0 stands for all lines. Multiple line IDs are separated by comma.
- At most 100 replace rules can be added to the IP phone.
- For the basic expression syntax of the replace rule, refer to Yealink phone-specific user guide.

To customize a replace rule file:

1. Open the template file using an ASCII editor.
2. For each replace rule you wish to add, add the following string to the file. Each starts on a separate line:

```
<Data Prefix="" Replace="" LineID=""/>
```

Where:

Prefix="" specifies the numbers to be replaced.

Replace="" specifies the alternate string.

LineID="" specifies the desired line(s) for this rule. When you leave it blank or enter

0, this replace rule will apply to all lines.

3. Specify the values within double quotes.
4. Save the change.

The following shows an example of the replace rule file:

```
<dialrule>
  <Data Prefix="1" Replace="05928665234" LineID=""/>
  <Data Prefix="2(xx)" Replace="002$1" LineID="0"/>
</dialrule>
```

```
#####
##                               Upload replace rule file                               ##
#####
```

dialplan_replace_rule.url =

For example, enter "tftp://192.168.1.100/DialPlan.xml" in the "dialplan_replace_rule.url =" field. During the auto provisioning process, the phone connects to the provisioning server "192.168.1.100", and downloads the replace rule file "DialPlan.xml".

Customizing a Dial-now File

You can create multiple dial-now rules using the supplied dial-now template file. After customizing the dial-now rules, place the dial-now file to the provisioning server and specify the access URL in the configuration files.

When editing a dial-now file, learn the following:

- <dialnow> indicates the start of the template file and </dialnow> indicates the end of the template file.
- Create dial-now rules between <dialnow> and </dialnow>.
- When specifying the desired line(s) for the dial-now rule, valid values are 0 and line ID. The digit 0 stands for all lines. Multiple line IDs are separated by comma.
- At most 100 dial-now rules can be added to the IP phone.
- For the basic expression syntax of the dial-now rule, refer to Yealink phone-specific user guide.

To customize a dial-now file:

1. Open the template file using an ASCII editor.
2. For each dial-now rule you wish to add, add the following string to the file. Each starts on a separate line:

```
<Data DialNowRule="" LineID=""/>
```

Where:

DialNowRule="" / rule="" specifies the dial-now rule.

LineID=""/ lines="" specifies the desired line(s) for this rule. When you leave it blank or enter 0, this dial-now rule will apply to all lines.

3. Specify the values within double quotes.
4. Save the change.

The following shows an example of a dial-now file:

```
<dialnow>
  <Data DialNowRule="1234" LineID="1"/>
  <Data DialNowRule="52[0-6]" LineID="1"/>
  <Data DialNowRule="xxxxxx" LineID=""/>
</dialnow>
```

```
#####
##                               ##
##                               ##
#####
```

dialplan_dialnow.url =

For example, enter "tftp://192.168.1.100/DialNow.xml" in the "dialplan_dialnow.url =" field. During the auto provisioning process, the phone connects to the provisioning server "192.168.1.100", and downloads the dial-now file "DialNow.xml".

Updating Firmware

The IP Phones allow you to update firmware manually via web user interface, or update firmware in batch via auto provisioning. The firmware names of the SIP-T46G, SIP-T42G and SIP-T41P IP phones are 28.x.x.x.rom, 29.x.x.x.rom and 36.x.x.x.rom (x is replaced by the actual firmware version).

To update the phones' firmware in batch via auto provisioning, ask the distributor for the firmware file, upload it to the provisioning server, and then specify the access URL in the configuration files.

```
#####
##                               ##
##                               ##
#####
```

firmware.url =

For example, enter "tftp://admin:password@192.168.1.100/28.71.0.50.rom" in the "firmware.url =" field. During the auto provisioning process, the phone connects to the provisioning server "192.168.1.100" ("admin" is replaced by the authentication user name and "password" is replaced by the authentication password), and downloads the firmware file "28.71.0.50.rom".

Configuring a TFTP Server

Yealink SIP-T4X IP Phones support to use FTP, TFTP, HTTP and HTTPS protocols to download configuration files. You can use one of these protocols for provisioning. The TFTP protocol is used by default. The following section provides instructions on how to configure a TFTP server.

We recommend that you use 3CDaemon or TFTP32 as a TFTP server. 3CDaemon and TFTP32 are free applications for Windows. You can download 3CDaemon online:

<http://www.oldversion.com/3Com-Daemon.html> and TFTP32 online:

<http://tftpd32.jounin.net/>.

For more instructions on how to configure FTP and HTTP servers, refer to [Configuring an FTP Server](#) on page 39 and [Configuring an HTTP Server](#) on page 42.

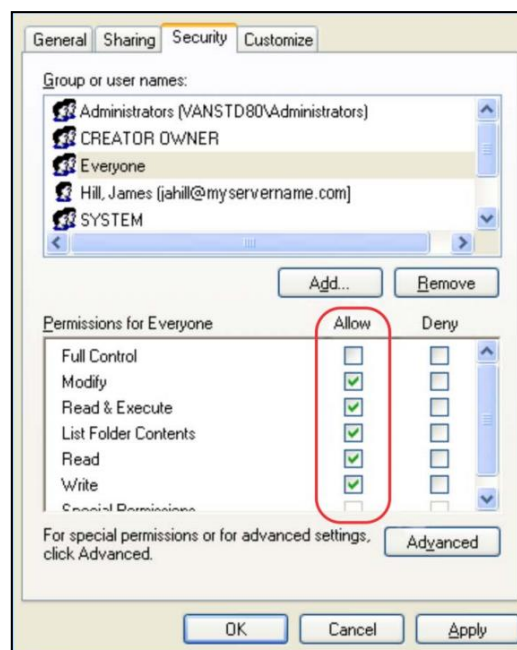
Preparing a Root Directory

To prepare a root directory:

1. Create a TFTP root directory on the local system.
2. Place configuration files to this root directory.
3. Set security permissions for the TFTP directory folder.

You need to define a user or a group name, and set the permissions: read, write or modify. Security permissions vary by organizations.

An example of configuration on the Windows platform is shown as below:

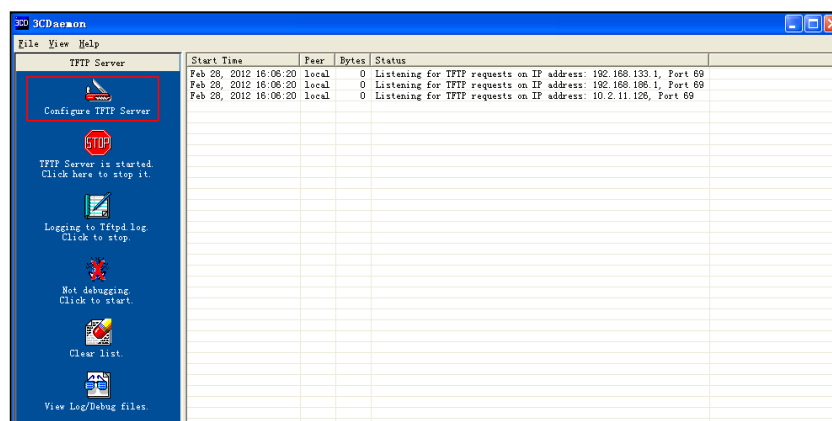



Configuring a TFTP Server

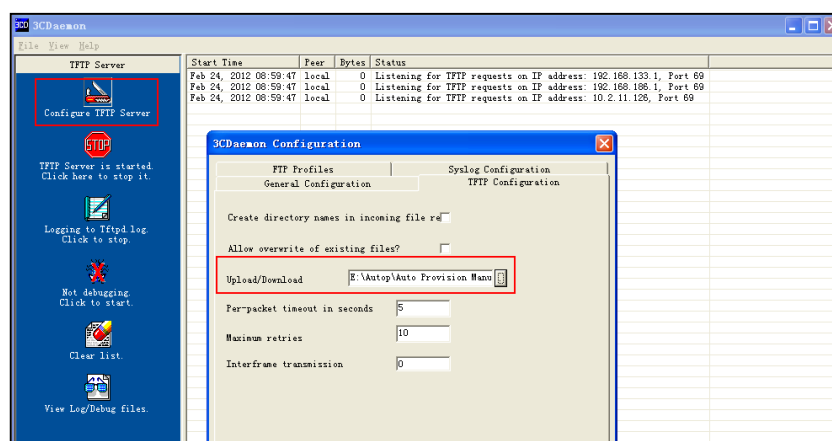
If you have a 3CDaemon application installed on your local system, use it directly. Otherwise, download and install it.

To configure a TFTP server:

1. Double click 3CDaemon.exe to start the application. A configuration page is shown as below:



2. Select **Configure TFTP Server**. Click the  button to locate the TFTP root directory from the local system:



3. Click the **Confirm** button to finish configuring the TFTP server.

The server URL "tftp://IP/" (Here "IP" means the IP address of the provisioning server, for example, "tftp://192.168.1.100/") is where the phone downloads configuration files from.

Obtaining the Provisioning Server Address

Yealink SIP-T4X IP phones support to obtain the provisioning server address in the following ways:

- [Zero Touch](#)
- [Plug and Play \(PnP\) Server](#)
- [DHCP Options](#)
- [Phone Flash](#)

The priority of obtaining the provisioning server address is as follows: Zero Touch-->PnP Server-->DHCP Options (Custom option-->option 66-->option 43) -->Phone Flash.

The following sections detail the process of each way (take the SIP-T46G IP phone as an example).

Zero Touch

Zero Touch allows you to configure the network parameters and provisioning server address via phone user interface during startup. This feature is helpful when there is a system failure on the phone. To use Zero Touch, make sure this feature is enabled.

To enable the Zero Touch via web user interface:

1. Click on **Settings->Auto Provision**.
2. Select **Enabled** from the pull-down list of **Zero Active**.
3. Configure the waiting time (in seconds) in the **Wait Time** field.

The screenshot shows the Yealink T46G web interface. The top navigation bar includes 'Status', 'Account', 'Network', 'DSSKey', 'Features', 'Settings', 'Directory', and 'Security'. The 'Settings' tab is selected. On the left sidebar, 'Auto Provision' is highlighted under the 'Configuration' section. The main content area displays the 'Auto Provision' settings. The 'PNP Active' and 'DHCP Active' options are both set to 'On'. The 'Custom Option(128~254)' is set to 'admin'. The 'DHCP Option Value' is set to 'yealink'. The 'Server URL', 'User Name', and 'Password' fields are empty. The 'Common AES Key' and 'MAC-Oriented AES Key' are both set to '*****'. The 'Zero Active' dropdown is set to 'Enabled'. The 'Wait Time' is set to 5. The 'Power On' option is set to 'On'. The 'Repeatedly' option is set to 'Off'. The 'Interval (Minutes)' is set to 1440. The 'Weekly' option is set to 'Off'. A 'NOTE' box on the right states: 'Auto Provision: The auto provision parameters for administrator.'

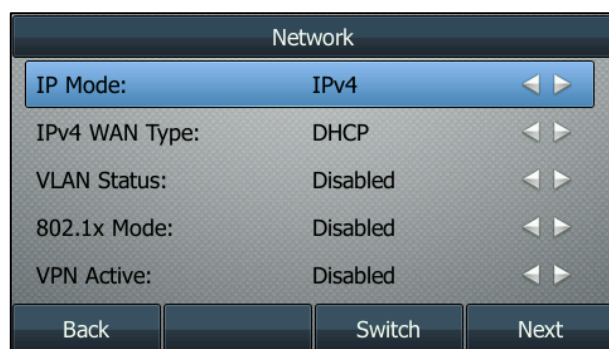
4. Click **Confirm** to accept the change.

When Zero Touch is enabled, there will be a configuration wizard during the startup:



Press the **OK** soft key.

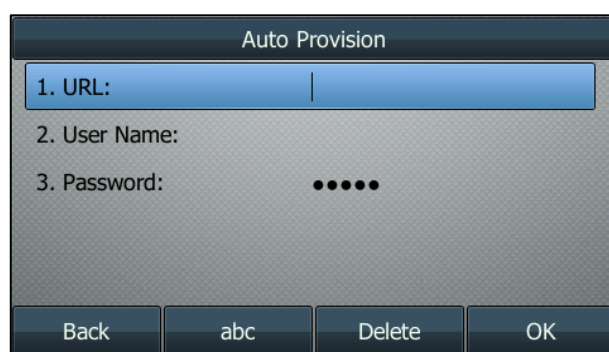
The network parameters are configurable via phone user interface:



Press the **Next** soft key after finishing the network parameters.

Configure the provisioning server address, authentication user name (optional) and password (optional) in the **Auto Provision** screen.

An example of screenshot is shown as below:



Plug and Play (PnP) Server

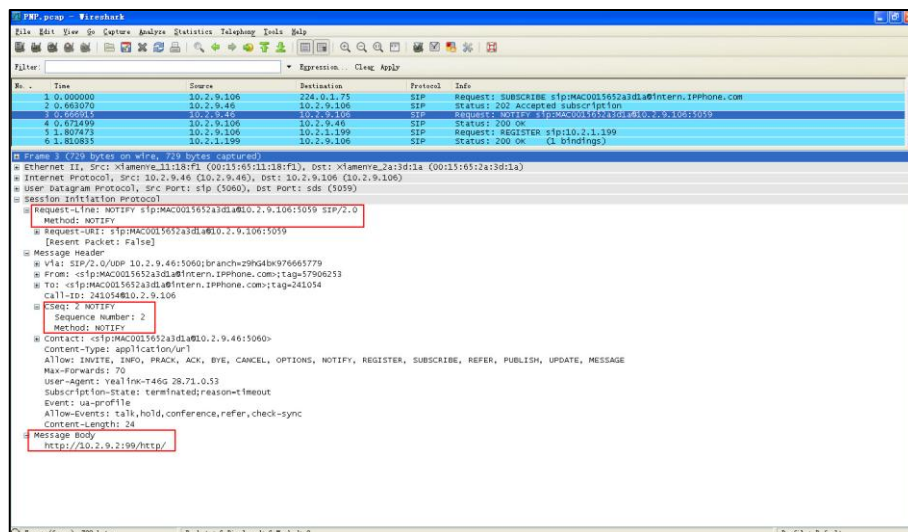
The IP phones support to obtain the provisioning server address from the PnP server. The phone broadcasts the PnP SUBSCRIBE message to obtain the provisioning server address during startup. To use Plug and Play, make sure this feature is enabled.

To enable PnP via web user interface:

1. Click on **Settings->Auto Provision**.
2. Mark the **On** radio box in the **PNP Active** field.

3. Click **Confirm** to accept the change.

Any PnP server activated in the network responses with a **SIP NOTIFY** message, and an address of the provisioning server is contained in the message body. Then the phone can connect to the provisioning server and perform the auto provisioning process.



DHCP Options

Yealink IP phones support to obtain the provisioning server address from DHCP options. You can configure the phone to obtain the provisioning server address from a custom DHCP option, or the phone will automatically detect the Option 66 and Option 43. The Option 66 is used to identify the TFTP server. To obtain the provisioning server by a

custom DHCP option, make sure the DHCP option is set properly.

The custom option must be in accordance with the one defined in the DHCP server. For more information on configuring a DHCP server, refer to [Configuring an HTTP Server](#) on page 42.

To configure the DHCP option via web user interface:

1. Click on **Settings->Auto Provision**.
2. Mark the **On** radio box in the **DHCP Active** field.
3. Enter the desired value in the **Custom Option (128~254)** field.
4. Enter the desired value in the **DHCP Option Value** field.

The default value is yealink.

5. Click **Confirm** to accept the change.

Phone Flash

Yealink IP phones support to obtain the provisioning server address from the phone flash. To obtain the provisioning server address by reading the phone flash, make sure the configuration is set properly.

To configure the Phone Flash via web user interface:

1. Click on **Settings->Auto Provision**.

2. Enter the URL, user name and password of the provisioning server in the **Server URL**, **User Name** and **Password** fields (the user name and password are optional).

The screenshot displays the Yealink T46G web interface. The top navigation bar includes tabs for Status, Account, Network, DSSKey, Features, Settings (selected), Directory, and Security. A left sidebar lists various configuration categories: Preference, Time & Date, Upgrade, Auto Provision (selected), Configuration, Dial Plan, Voice, Ring, Tones, Softkey Layout, and TR069. The main content area is titled 'Auto Provision' and contains the following settings:

Setting	Value
PNP Active	<input checked="" type="radio"/> On <input type="radio"/> Off
DHCP Active	<input checked="" type="radio"/> On <input type="radio"/> Off
Custom Option(128~254)	128
DHCP Option Value	yealink
Server URL	6.106:8080/phone/y000000000028.cfg
User Name	admin
Password	*****
Common AES Key	*****
MAC-Oriented AES Key	*****
Zero Active	Disabled
Wait Time	5
Power On	<input checked="" type="radio"/> On <input type="radio"/> Off
Repeatedly	<input type="radio"/> On <input checked="" type="radio"/> Off
Interval (Minutes)	1440
Weekly	<input type="radio"/> On <input checked="" type="radio"/> Off

On the right side of the settings area, there is a 'NOTE' box with the following text:

Auto Provision
The auto provision parameters for administrator.

3. Click **Confirm** to accept the change.

Update Mode

The update mode is used to set the desired time for the IP phone to perform the auto provisioning process. This chapter introduces the following update modes in detail:

- [Power On](#)
- [Repeatedly](#)
- [Weekly](#)
- [Auto Provision Now](#)
- [Multi-mode Mixed](#)
- [SIP NOTIFY Message](#)

When there is an active call on the phone during provisioning, the auto provisioning process will detect the call status in every 30 seconds. If the call is released within 2 hours, the auto provisioning process will be performed normally. Otherwise, the process will be completed, due to timeout.

Power On

The phone performs the auto provisioning process when the phone is powered on.

To activate the power on mode via web user interface:

1. Click on **Settings->Auto Provision**.
2. Mark the **On** radio box in the **Power On** field.

The screenshot shows the Yealink T46G web interface. The top navigation bar includes 'Status', 'Account', 'Network', 'DSSKey', 'Features', 'Settings', 'Directory', and 'Security'. The 'Settings' tab is active, and the 'Auto Provision' sub-tab is selected in the left sidebar. The main content area displays the 'Auto Provision' configuration page. The 'Power On' radio button is selected, indicating that the phone will perform auto provisioning when powered on. Other settings include 'PNP Active' (On), 'DHCP Active' (On), 'Custom Option(128~254)' (empty), 'DHCP Option Value' (yealink), 'Server URL' (empty), 'User Name' (empty), 'Password' (masked), 'Common AES Key' (masked), 'MAC-Oriented AES Key' (masked), 'Zero Active' (Disabled), 'Wait Time' (5), 'Interval (Minutes)' (1440), and 'Weekly' (Off). A 'NOTE' box on the right states: 'Auto Provision: The auto provision parameters for administrator.'

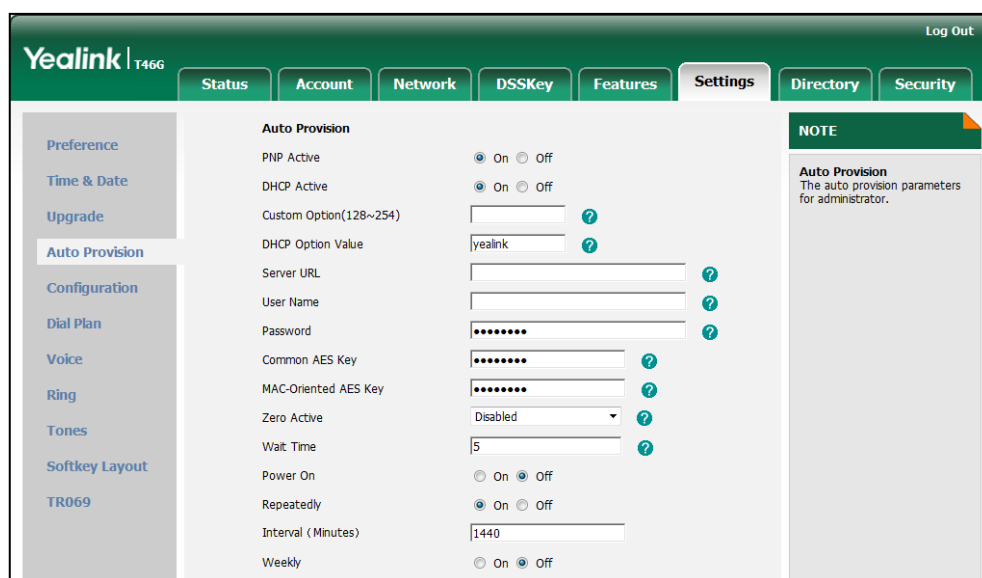
3. Click **Confirm** to accept the change.

Repeatedly

The phone performs the auto provisioning process at regular intervals. You can configure the interval for the Repeatedly mode. The default interval is 1440 minutes.

To activate the Repeatedly mode via web user interface:

1. Click on **Settings->Auto Provision**.
2. Mark the **On** radio box in the **Repeatedly** field.
3. Enter the interval time in the **Interval (Minutes)** field.



The screenshot shows the Yealink T46G web interface. The top navigation bar includes 'Status', 'Account', 'Network', 'DSSKey', 'Features', 'Settings' (selected), 'Directory', and 'Security'. A left sidebar lists various settings categories: Preference, Time & Date, Upgrade, Auto Provision (selected), Configuration, Dial Plan, Voice, Ring, Tones, Softkey Layout, and TR069. The main content area is titled 'Auto Provision' and contains the following settings:

- PNP Active: ☒ On ☐ Off
- DHCP Active: ☒ On ☐ Off
- Custom Option(128~254): [Empty field]
- DHCP Option Value: [Text field containing 'yealink']
- Server URL: [Empty field]
- User Name: [Empty field]
- Password: [Masked field]
- Common AES Key: [Masked field]
- MAC-Oriented AES Key: [Masked field]
- Zero Active: [Dropdown menu showing 'Disabled']
- Wait Time: [Text field containing '5']
- Power On: ☐ On ☒ Off
- Repeatedly: ☒ On ☐ Off
- Interval (Minutes): [Text field containing '1440']
- Weekly: ☐ On ☒ Off

On the right side, there is a 'NOTE' box with the text: 'Auto Provision The auto provision parameters for administrator.'

4. Click **Confirm** to accept the change.

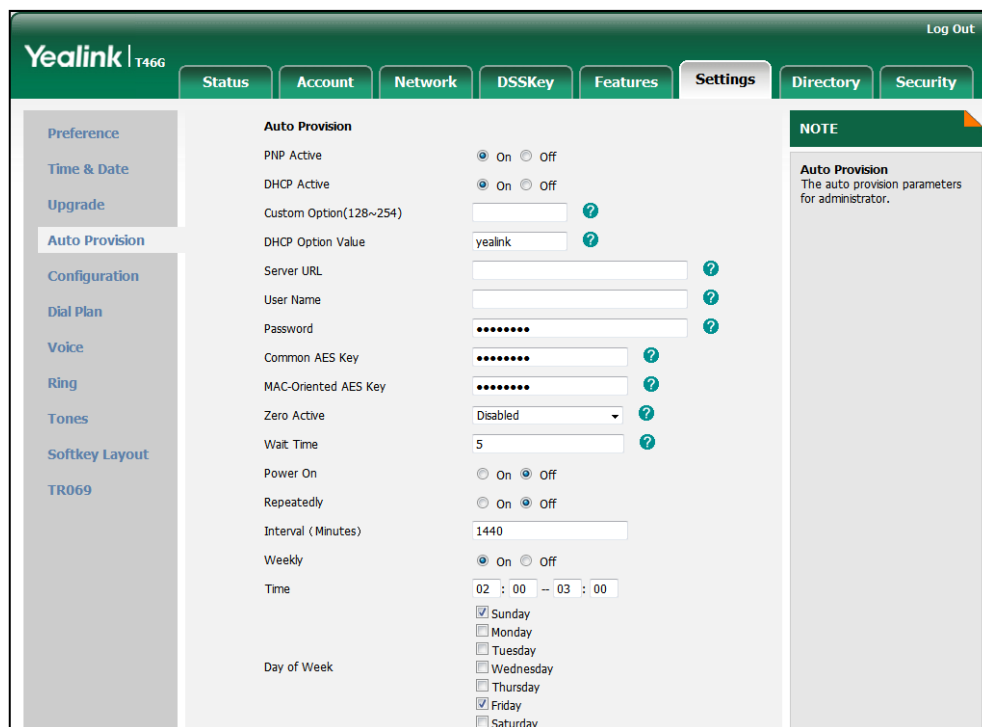
Weekly

The phone performs the auto provisioning process at the fixed time every week. You can configure what time of the day and which day of the week to trigger the phone to perform the auto provisioning process. For example, you can configure the phone to check and update new configuration between 2 to 3 o'clock every Friday and Sunday.

To activate the Weekly mode via web user interface:

1. Click on **Settings->Auto Provision**.
2. Mark the **On** radio box in the **Weekly** field.
3. Enter the desired time in the **Time** field.

- Mark one or more radio boxes in the **Day of Week** field.



The screenshot displays the Yealink T46G web interface. The top navigation bar includes tabs for Status, Account, Network, DSSKey, Features, Settings (selected), Directory, and Security. The left sidebar lists configuration categories: Preference, Time & Date, Upgrade, Auto Provision (selected), Configuration, Dial Plan, Voice, Ring, Tones, Softkey Layout, and TR069. The main content area is titled 'Auto Provision' and contains the following settings:

- PNP Active: ☒ On ☐ Off
- DHCP Active: ☒ On ☐ Off
- Custom Option(128~254):
- DHCP Option Value:
- Server URL:
- User Name:
- Password:
- Common AES Key:
- MAC-Oriented AES Key:
- Zero Active:
- Wait Time:
- Power On: ☐ On ☒ Off
- Repeatedly: ☐ On ☒ Off
- Interval (Minutes):
- Weekly: ☒ On ☐ Off
- Time: --
- Day of Week:
 - ☒ Sunday
 - ☐ Monday
 - ☐ Tuesday
 - ☐ Wednesday
 - ☐ Thursday
 - ☒ Friday
 - ☐ Saturday

A 'NOTE' box on the right states: **Auto Provision**
The auto provision parameters for administrator.

- Click **Confirm** to accept the change.

Auto Provision Now

You can use Auto Provision Now mode to manually trigger the phone to perform the auto provisioning process immediately.

To use the Auto Provision Now mode via web user interface:

- Click on **Settings->Auto Provision**.

2. Click **Autoprovision Now**.

The phone will perform the auto provisioning process immediately.

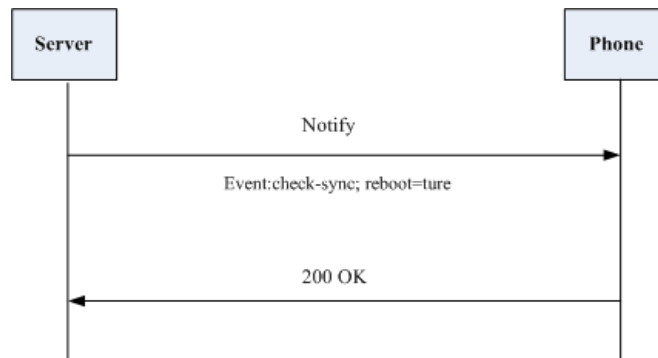
Multi-mode Mixed

You can activate more than one update mode for auto provisioning. For example, you can activate the Power On and Repeatedly modes simultaneously, the phone performs the auto provisioning process when it is powered on and at a specified interval.

SIP NOTIFY Message

The phone will perform the auto provisioning process when receiving a SIP NOTIFY message which contains the header "Event:check-sync". If the header of the SIP NOTIFY message contains an additional string "reboot=true", the phone will reboot immediately and then perform the auto provisioning process. This update mode requires server support.

The following figure shows the message flow:



Downloading Configuration Files

Downloading Configuration Files from the Provisioning Server

Once obtaining a provisioning server address in one of the ways introduced above, the phone will connect to the provisioning server and download the configuration files. The phone will try to download the Common CFG file first from the provisioning server, and then download the MAC-Oriented CFG file. If resource files need to be updated and the access URLs has been specified in the configuration files, the phone will then try to download and update the resource files.

Resolving and Updating the Configurations

After downloading, the phone resolves the configuration files, updates the configurations and resource files to the phone flash. Generally, updated configurations will automatically take effect after the auto provisioning process is completed. For update of some specific configurations which require reboot before taking effect, for example, network configurations, the phone will reboot to make the configurations effective after the auto provisioning process is completed.

The phone calculates the MD5 values of the downloaded files. If the MD5 values of the Common and MAC-Oriented configuration files are the same as those of the last downloaded configuration files, this means these two configuration files on the provisioning server are not changed. The phone will complete the auto provisioning process without repeated update. This is used to avoid unnecessary restart and impact of phone use.

If the configuration files have been AES-encrypted, the phone uses the Common AES key to decrypt the Common CFG file and the MAC-Oriented AES key to decrypt the CFG file after downloading the configuration files.

The phone only reboots when there is at least a specific configuration requiring reboot need to be updated during auto provisioning.

For more information on the specific configurations which require reboot during provisioning, refer to the section [Description of Configuration Parameters in CFG Files](#) on page 55.

Verifying Configurations

After auto provisioning, you can verify the update via phone user interface or web user interface. For more information, refer to Yealink phone-specific user guide.

During the auto provisioning process, you can monitor the downloading requests and response messages by a WinPcap tool during the auto provisioning process. The following shows some examples.

Example 1: Yealink SIP-T46G IP phone downloads configuration files from the TFTP server.

Filter: bootp|tftp|http

No.	Time	Source	Destination	Protocol	Info
194	46.954819	10.2.11.119	10.2.11.126	TFTP	Read Request, File: y00000000002b.cfg/000, Transfer type: octet/000
199	46.971859	10.2.11.126	10.2.11.119	TFTP	Data Packet, Block: 1
200	46.981090	10.2.11.119	10.2.11.126	TFTP	Acknowledgement, Block: 1
205	46.985200	10.2.11.126	10.2.11.119	TFTP	Data Packet, Block: 2
202	46.983900	10.2.11.119	10.2.11.126	TFTP	Acknowledgement, Block: 2
203	46.988250	10.2.11.126	10.2.11.119	TFTP	Data Packet, Block: 3
204	46.986221	10.2.11.119	10.2.11.126	TFTP	Acknowledgement, Block: 3
206	46.986388	10.2.11.126	10.2.11.119	TFTP	Data Packet, Block: 4
206	46.989806	10.2.11.119	10.2.11.126	TFTP	Acknowledgement, Block: 4
207	46.990041	10.2.11.126	10.2.11.119	TFTP	Data Packet, Block: 5
208	46.991977	10.2.11.119	10.2.11.126	TFTP	Acknowledgement, Block: 5
209	46.992133	10.2.11.126	10.2.11.119	TFTP	Data Packet, Block: 6
210	46.993832	10.2.11.119	10.2.11.126	TFTP	Acknowledgement, Block: 6
211	46.994354	10.2.11.126	10.2.11.119	TFTP	Data Packet, Block: 7
211	46.996021	10.2.11.119	10.2.11.126	TFTP	Acknowledgement, Block: 7
213	46.996245	10.2.11.126	10.2.11.119	TFTP	Data Packet, Block: 8
214	47.000330	10.2.11.119	10.2.11.126	TFTP	Acknowledgement, Block: 8
215	47.000704	10.2.11.126	10.2.11.119	TFTP	Data Packet, Block: 9
216	47.001981	10.2.11.119	10.2.11.126	TFTP	Acknowledgement, Block: 9
217	47.004139	10.2.11.126	10.2.11.119	TFTP	Data Packet, Block: 10 (last)
218	47.001570	10.2.11.119	10.2.11.126	TFTP	Acknowledgement, Block: 10
244	54.444367	10.2.11.126	10.2.11.119	TFTP	Read Request, File: 0015651185c.cfg/000, Transfer type: octet/000
245	54.462711	10.2.11.119	10.2.11.126	TFTP	Error, Code: Access violation, Message: Could not open requested file for reading

Frame 415 (345 bytes on wire, 345 bytes captured)
 Ethernet II, Src: dc:15:4d:4d:4d:4d (dc:15:4d:4d:4d:4d), Dst: xiamenve.11:18:15c (00:15:65:11:18:15c)
 Internet Protocol, Src: 10.2.11.254 (10.2.11.254), Dst: 10.2.11.244 (10.2.11.244)
 User Datagram Protocol, Src Port: bootps (67), Dst Port: bootpc (68)
 Bootstrap Protocol
 Message type: Boot Reply (2)
 Hardware type: Ethernet
 Hardware address: length: 6
 Hops: 0
 Transaction ID: 0xbcc10503
 Seconds elapsed: 0
 Bootp Flags: 0x0000 (Unicast)
 Client IP address: 0.0.0.0 (0.0.0.0)
 Your (Client) IP address: 10.2.11.244 (10.2.11.244)
 Next server IP address: 0.0.0.0 (0.0.0.0)
 Relay agent IP address: 0.0.0.0 (0.0.0.0)
 Client Mac address: xiamenve.11:18:15c (00:15:65:11:18:15c)
 Client hardware address padding: 00000000000000000000
 Server host name not given
 Boot file name not given

Example 2: Yealink SIP-T46G IP phone downloads configuration files from the FTP server.

Filter: ftp|tftp|http|bootp

No.	Time	Source	Destination	Protocol	Info
151	34.500098	10.2.11.126	10.2.11.115	FTP	Response: 220 3Com 3Coman FTP Server Version 2.0
153	34.507126	10.2.11.115	10.2.11.126	FTP	Request: USER lff
154	34.509003	10.2.11.126	10.2.11.115	FTP	Response: 331 user name ok, need password
155	34.511482	10.2.11.115	10.2.11.126	FTP	Request: PASS llllllll
156	34.515044	10.2.11.126	10.2.11.115	FTP	Response: 230 user logged in
157	34.523105	10.2.11.115	10.2.11.126	FTP	Request: TYPE I
158	34.524405	10.2.11.126	10.2.11.115	FTP	Response: 200 Type set to I.
159	34.529402	10.2.11.115	10.2.11.126	FTP	Request: PASV
160	34.532697	10.2.11.126	10.2.11.115	FTP	Response: 227 Entering passive mode (10.2.11.126,5,180)
164	34.541081	10.2.11.115	10.2.11.126	FTP	Request: SIZE y00000000002b.cfg
165	34.541286	10.2.11.126	10.2.11.115	FTP	Response: 213 1889
166	34.552631	10.2.11.115	10.2.11.126	FTP	Request: RETR 0015651185c.cfg
167	34.554157	10.2.11.126	10.2.11.115	FTP	Response: 125 using existing data connection
177	34.593926	10.2.11.126	10.2.11.115	FTP	Response: 226 Closing data connection; File transfer successful.
188	36.338570	10.2.11.115	10.2.11.126	FTP	Request: QUIT
189	36.340311	10.2.11.126	10.2.11.115	FTP	Response: 221 Service closing control connection

Frame 216 (1024 bytes on wire, 1024 bytes captured)
 Ethernet II, Src: dc:15:4d:4d:4d:4d (dc:15:4d:4d:4d:4d:4d), Dst: xiamenve.11:18:15c (00:15:65:11:18:15c)
 Internet Protocol, Src: 10.2.11.254 (10.2.11.254), Dst: 10.2.11.244 (10.2.11.244)
 User Datagram Protocol, Src Port: bootps (67), Dst Port: bootpc (68)
 Bootstrap Protocol
 Message type: Boot Reply (2)
 Hardware type: Ethernet
 Hardware address: length: 6
 Hops: 0
 Transaction ID: 0xbcc10503
 Seconds elapsed: 0
 Bootp Flags: 0x0000 (Unicast)
 Client IP address: 0.0.0.0 (0.0.0.0)
 Your (Client) IP address: 10.2.11.244 (10.2.11.244)
 Next server IP address: 0.0.0.0 (0.0.0.0)
 Relay agent IP address: 0.0.0.0 (0.0.0.0)
 Client Mac address: xiamenve.11:18:15c (00:15:65:11:18:15c)
 Client hardware address padding: 00000000000000000000
 Server host name not given
 Boot file name not given

Example 3: Yealink SIP-T46G IP phone downloads configuration files from the HTTP server.

Filter: http

No.	Time	Source	Destination	Protocol	Info
240	6.882104	10.2.11.126	10.2.11.244	HTTP	POST /cgi-bin/configmanapp.com HTTP/1.1 (application/x-www-form-urlencoded)
321	8.003114	10.2.11.126	10.2.11.244	HTTP	GET /cgi-bin/configmanapp.com?id=78a1axa161d=0.9391627115025837 HTTP/1.1
308	10.981593	10.2.11.244	10.2.11.126	HTTP	GET /y00000000002b.cfg HTTP/1.1
310	12.721055	10.2.11.126	10.2.11.244	HTTP	GET /y00000000002b.cfg HTTP/1.1
812	15.250205	10.2.11.244	10.2.11.126	HTTP	GET /0015651185c.cfg HTTP/1.1
836	15.261886	10.2.11.126	10.2.11.244	HTTP	HTTP/1.1 404 Not Found (text/html)
327	61.877302	10.2.11.126	10.2.11.244	HTTP	GET /cgi-bin/configmanapp.com?id=78a1axa161d=0.9391627115025837 HTTP/1.1
328	71.873594	10.2.11.126	10.2.11.244	HTTP	GET /cgi-bin/configmanapp.com?id=78a1axa161d=0.989411627105095 HTTP/1.1
3392	81.987954	10.2.11.126	10.2.11.244	HTTP	GET /cgi-bin/configmanapp.com?id=78a1axa161d=0.9273830928056307 HTTP/1.1
3436	86.440448	10.2.11.126	10.2.11.244	HTTP	GET /cgi-bin/configmanapp.com?id=1 HTTP/1.1
3448	86.486121	10.2.11.126	10.2.11.244	HTTP	POST /check_outchm.php HTTP/1.1
3476	86.534643	10.2.11.126	10.2.11.244	HTTP	HTTP/1.1 200 OK (text/html)
3480	87.097339	10.2.11.126	10.2.11.244	HTTP	HTTP/1.1 200 OK (text/html)
3487	87.015780	10.2.11.126	10.2.11.244	HTTP	HTTP/1.1 200 OK (text/html)
3488	87.099539	10.2.11.126	10.2.11.244	HTTP	GET /p1877703ad87-1870-4c6d-9600-f14a612243dd/ANZP0n0evP9m07uy1NOT5v0k0ertA7a7zV9B7ac HTTP/1.1
3490	87.258031	10.2.11.126	10.2.11.244	HTTP	HTTP/1.1 200 OK (image/gif)
3491	87.316651	10.2.11.126	10.2.11.244	HTTP	GET /p1877703ad87-1870-4c6d-9600-f14a612243dd/ANZP0n0evP9m07uy1NOT5v0k0ertA7a7zV9B7ac HTTP/1.1
3492	87.413143	10.2.11.126	10.2.11.244	HTTP	GET /p1877703ad87-1870-4c6d-9600-f14a612243dd/ANZP0n0evP9m07uy1NOT5v0k0ertA7a7zV9B7ac HTTP/1.1
3522	88.562549	10.2.11.126	10.2.11.244	HTTP	GET /js/common.js?127787626 HTTP/1.1
3532	88.754732	10.2.11.126	10.2.11.244	HTTP	HTTP/1.1 200 OK (application/javascript)
3547	92.026186	10.2.11.126	10.2.11.244	HTTP	HTTP/1.1 200 OK (application/javascript)
3585	94.901678	10.2.11.126	10.2.11.244	HTTP	GET /client/mw_m01201173029.gif HTTP/1.1
3594	94.954821	10.2.11.126	10.2.11.244	HTTP	HTTP/1.1 200 OK (GIF89a)
3610	100.038609	10.2.11.126	10.2.11.244	HTTP	GET /client/mw_m01201173029.gif HTTP/1.1
3647	100.746077	10.2.11.126	10.2.11.244	HTTP	GET /client/mw_m01201173029.gif HTTP/1.1
3659	103.063716	10.2.11.126	10.2.11.244	HTTP	GET /y00000000002b.cfg HTTP/1.1
3665	103.068709	10.2.11.126	10.2.11.244	HTTP	GET /y00000000002b.cfg HTTP/1.1
3677	103.961308	10.2.11.126	10.2.11.244	HTTP	GET /0015651185c.cfg HTTP/1.1
3681	103.961889	10.2.11.126	10.2.11.244	HTTP	HTTP/1.1 404 Not Found (text/html)
3693	103.387490	10.2.11.126	10.2.11.244	HTTP	GET /client/mw_m01201173029.gif HTTP/1.1
3704	105.454796	10.2.11.126	10.2.11.244	HTTP	HTTP/1.1 200 OK (GIF89a)
3726	110.532653	10.2.11.126	10.2.11.244	HTTP	GET /client/mw_m01201173029.gif HTTP/1.1
3757	110.704255	10.2.11.126	10.2.11.244	HTTP	HTTP/1.1 200 OK (application/javascript)
3786	115.938709	10.2.11.126	10.2.11.244	HTTP	GET /client/mw_m01201173029.gif HTTP/1.1
3798	116.023309	10.2.11.126	10.2.11.244	HTTP	HTTP/1.1 200 OK (GIF89a)
3836	121.112817	10.2.11.126	10.2.11.244	HTTP	GET /client/mw_m01201173029.gif HTTP/1.1
3859	121.303246	10.2.11.126	10.2.11.244	HTTP	HTTP/1.1 200 OK (application/javascript)
3884	126.365017	10.2.11.126	10.2.11.244	HTTP	GET /client/mw_m01201173029.gif HTTP/1.1
3905	130.459294	10.2.11.126	10.2.11.244	HTTP	HTTP/1.1 200 OK (GIF89a)

Frame 4025 (523 bytes on wire, 523 bytes captured)
 Ethernet II, Src: dc:15:4d:4d:4d:4d (dc:15:4d:4d:4d:4d:4d), Dst: xiamenve.11:18:15c (00:15:65:11:18:15c)
 Internet Protocol, Src: 10.2.11.254 (10.2.11.254), Dst: 10.2.11.244 (10.2.11.244)
 User Datagram Protocol, Src Port: bootps (67), Dst Port: bootpc (68)
 Bootstrap Protocol
 Message type: Boot Reply (2)
 Hardware type: Ethernet
 Hardware address: length: 6
 Hops: 0
 Transaction ID: 0xbcc10503
 Seconds elapsed: 0
 Bootp Flags: 0x0000 (Unicast)
 Client IP address: 0.0.0.0 (0.0.0.0)
 Your (Client) IP address: 10.2.11.244 (10.2.11.244)
 Next server IP address: 0.0.0.0 (0.0.0.0)
 Relay agent IP address: 0.0.0.0 (0.0.0.0)
 Client Mac address: xiamenve.11:18:15c (00:15:65:11:18:15c)
 Client hardware address padding: 00000000000000000000
 Server host name not given
 Boot file name not given

Troubleshooting

This chapter provides general troubleshooting information to help you solve problems you might encounter when deploying phones.

If you require additional information or assistance with the deployment, contact your system administrator.

Why does the phone fail to download configuration files?

- Ensure that auto provisioning feature is enabled.
- Ensure that the provisioning server and network are reachable.
- Ensure that authentication credentials configured on the phone are correct.
- Ensure that configuration files exist on the provisioning server.

Why does the provisioning server return HTTP 404?

- Ensure that the provisioning server is properly set up.
- Ensure that the access URL is correct.
- Ensure that requested files exist on the provisioning server.

Why does the phone display "Network Unavailable"?

- Ensure that the Ethernet cable is plugged into the Internet port on the phone and the Ethernet cable is not loose.
- Ensure that the switch or hub in your network is operational.
- Ensure that the configurations of network are properly set in the configuration files.

Why is the permission denied when uploading files to an FTP server?

- Ensure that the complete path to the root directory of the FTP server is authorized.
- On the provisioning server, check the file permissions, if necessary, change the file permissions.

Why doesn't the phone obtain the IP address from the DHCP server?

- Ensure that settings are correct on the DHCP server.
- Ensure that the phone is configured to obtain the IP address from the DHCP server.

Why doesn't the phone download the ringtone?

- Ensure that the file format of the ringtone is *.wav

- Ensure that the size of the ringtone file is no larger than that the phone supports.
- Ensure that the properties of the ringtone for the phone are correct.
- Ensure that the network is available and the root directory is right for downloading.
- Ensure that the ringtone file exists on the provisioning server.

Why doesn't the phone update configurations?

- Ensure that the configuration files are different from the last ones.
- Ensure that the phone has downloaded the configuration files.
- Ensure that the parameters are correctly set in the configuration files.

Glossary

MAC Address: A Media Access Control address (MAC address) is a unique identifier assigned to network interfaces for communications on the physical network segment.

MD5: The MD5 Message-Digest Algorithm is a widely used cryptographic hash function that produces a 128-bit (16-byte) hash value.

DHCP: Dynamic Host Configuration Protocol (DHCP) is a network configuration protocol for hosts on Internet Protocol (IP) networks. Computers that are connected to IP networks must be configured before they can communicate with other hosts.

FTP: File Transfer Protocol (FTP) is a standard network protocol used to transfer files from one host to another host over a TCP-based network, such as the Internet. It is often used to upload web pages and other documents from a private development machine to a public web-hosting server.

HTTP: The Hypertext Transfer Protocol (HTTP) is an application protocol for distributed, collaborative, hypermedia information systems. HTTP is the foundation of data communication for the World Wide Web.

HTTPS: Hypertext Transfer Protocol Secure (HTTPS) is a combination of Hypertext Transfer Protocol (HTTP) with SSL/TLS protocol. It provides encrypted communication and secure identification of a network web server.

TFTP: Trivial File Transfer Protocol (TFTP) is a simple protocol to transfer files. It has been implemented on top of the User Datagram Protocol (UDP) using port number 69.

AES: Advanced Encryption Standard (AES) is a specification for the encryption of electronic data.

URL: A uniform resource locator or universal resource locator (URL) is a specific character string that constitutes a reference to an Internet resource.

XML: Extensible Markup Language (XML) is a markup language that defines a set of rules for encoding documents in a format that is both human-readable and machine-readable.

Appendix

Configuring an FTP Server

This section provides instructions on how to configure an FTP server using 3CDaemon.

You can download the 3CDaemon software online:

<http://www.oldversion.com/3Com-Daemon.html>.

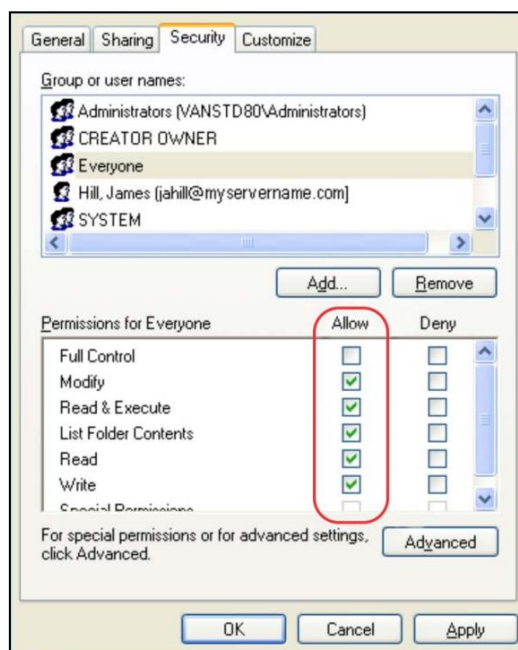
Preparing a Root Directory

To prepare a root directory:

1. Create an FTP root directory on the local system.
2. Place the configuration files to this root directory.
3. Set the security permissions for the FTP directory folder.

You need to define a user or group name, and set the permissions: read, write, and modify. Security permissions vary by organizations.

An example of configuration on the Windows platform is shown as below:



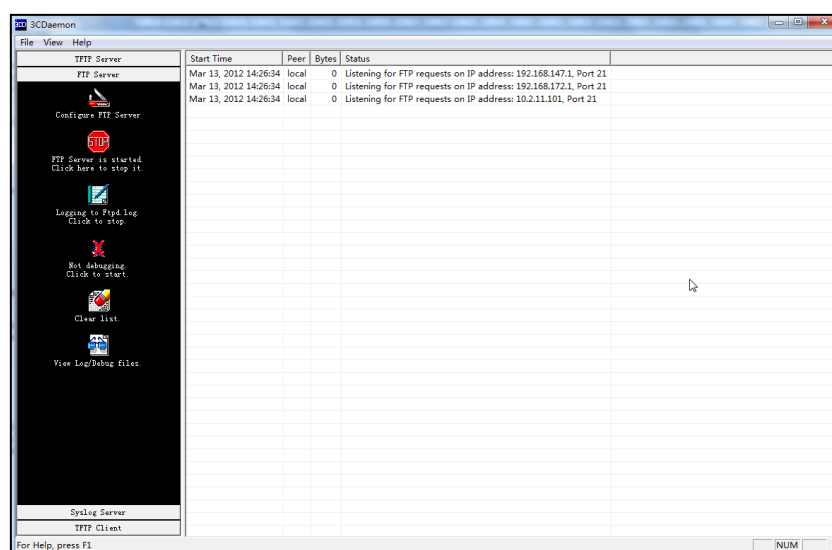
Configuring an FTP Server


If you have a 3CDaemon application installed on your local system, use it directly. Otherwise, download and install it.

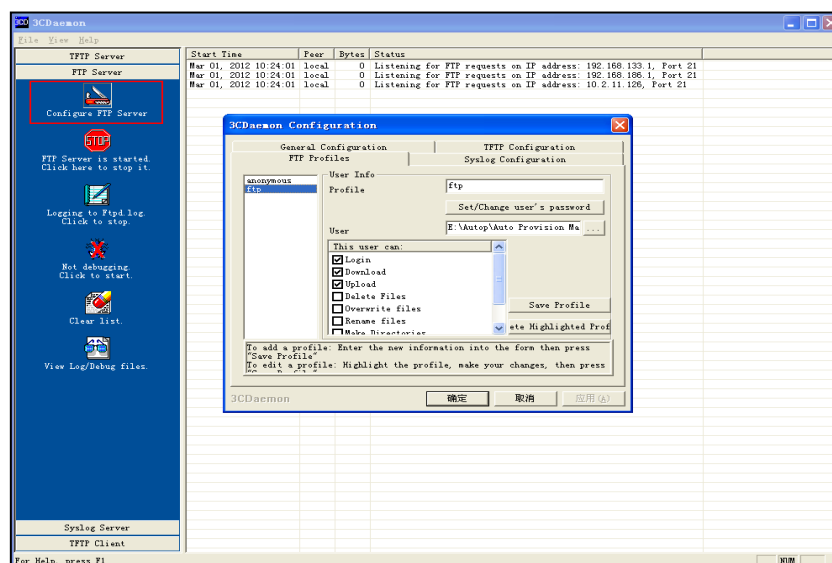
To configure an FTP server:

1. Double click the 3CDaemon.exe to start the application.
2. Click the **FTP Server** button on the left of the main page.

A configuration page shows as below:



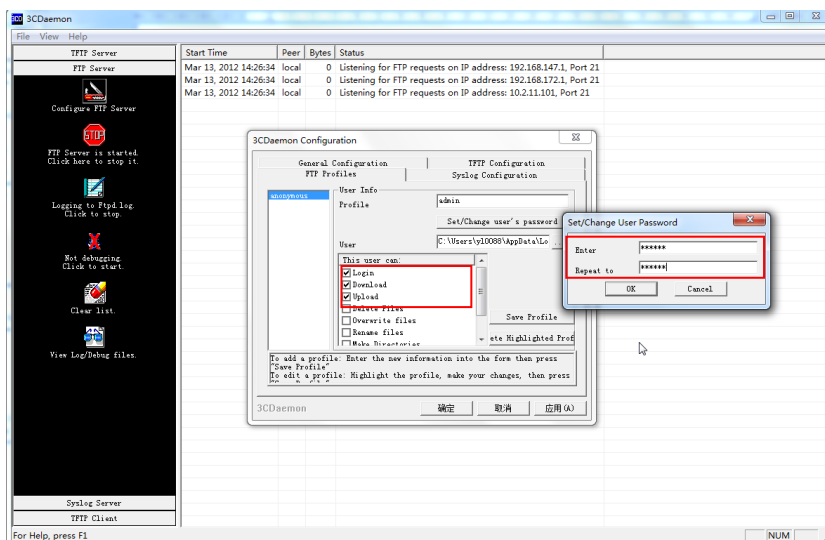
3. Select **Configure FTP Server**.
4. Click the  button to locate the FTP root directory from the local system:



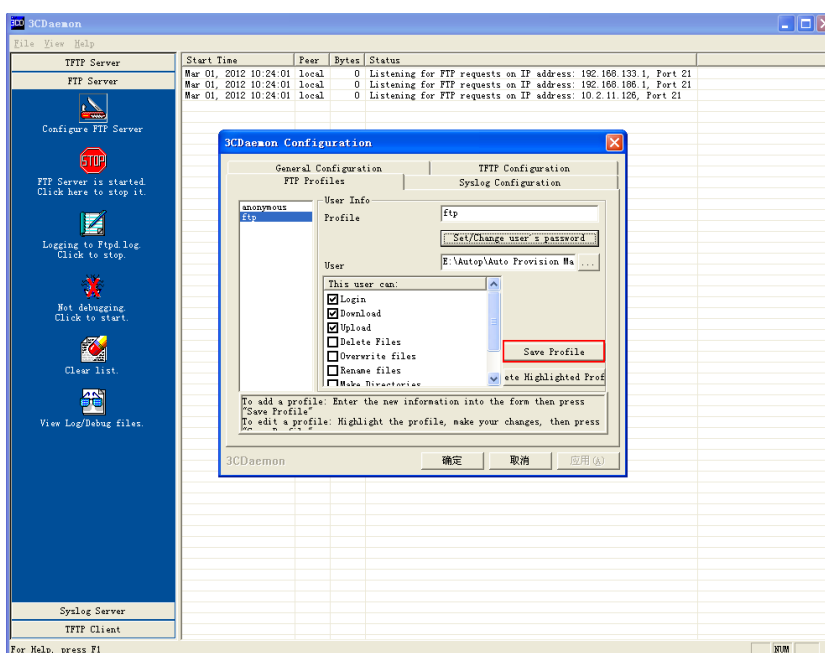
5. Enter the new authentication user name in the **Profile** field.
6. Click the **Set/Change user's password** button to set the password in the pop-up

dialogue box.

7. Click the **OK** button to save.
8. Mark the check boxes of **Login**, **Download** and **Upload** to make sure the FTP user has the login, download and upload permission.



9. Click the **Save Profile** button to save the settings and finish the configurations.



10. Click the **Confirm** button to finish configuring the FTP server.

The server URL "ftp://username:password@IP/" (Here "IP" means the IP address of the provisioning server, "username" and "password" are the authentication for FTP download. For example, "ftp://admin:123456@192.168.1.100/") is where the phone downloads configuration files from.

Configuring an HTTP Server

This section provides instructions on how to configure an HTTP server using HFS tool. You can download the HFS software online: <http://www.snapfiles.com/get/hfs.html>.

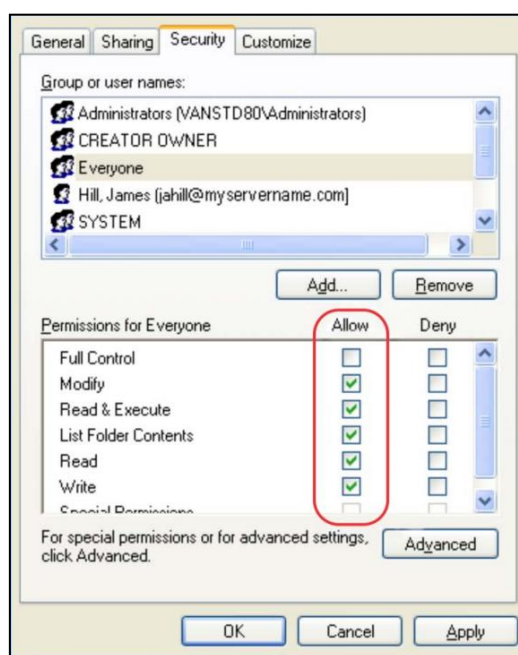
Preparing a Root Directory

To prepare a root directory:

1. Create an HTTP root directory on the local system.
2. Place the configuration files to this root directory.
3. Set the security permissions for the HTTP directory folder.

You need to define a user or group name and set the permissions: read, write, and modify. Security permissions vary by organizations.

An example of configuration on the Windows platform is shown as below:



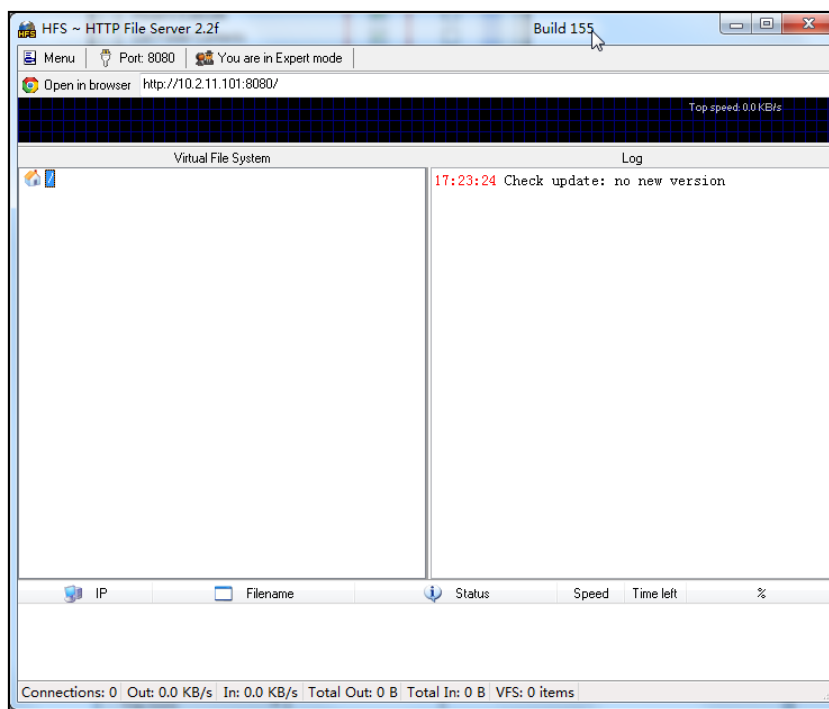
Configuring an HTTP Server

HFS tool is an executable application, so you don't need to install it.

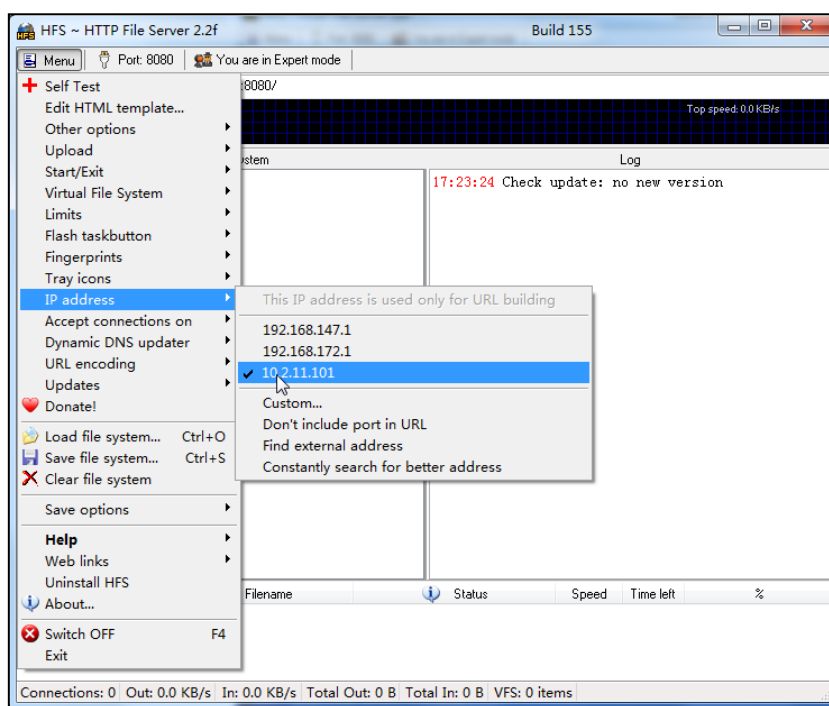
To configure an HTTP server:

1. Download the application file to your local directory, double click the hfs.exe.

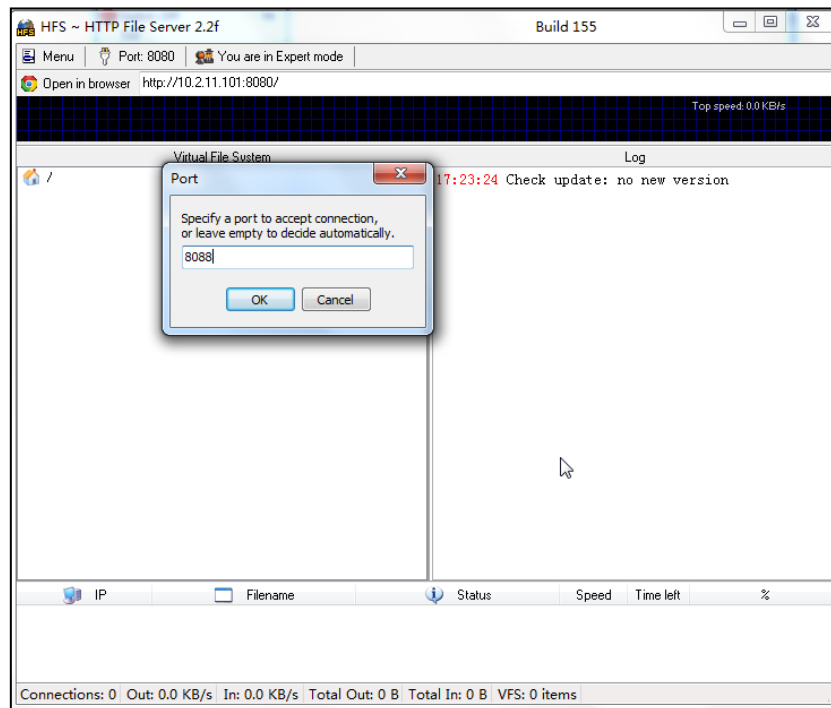
The main configuration page is shown as below:




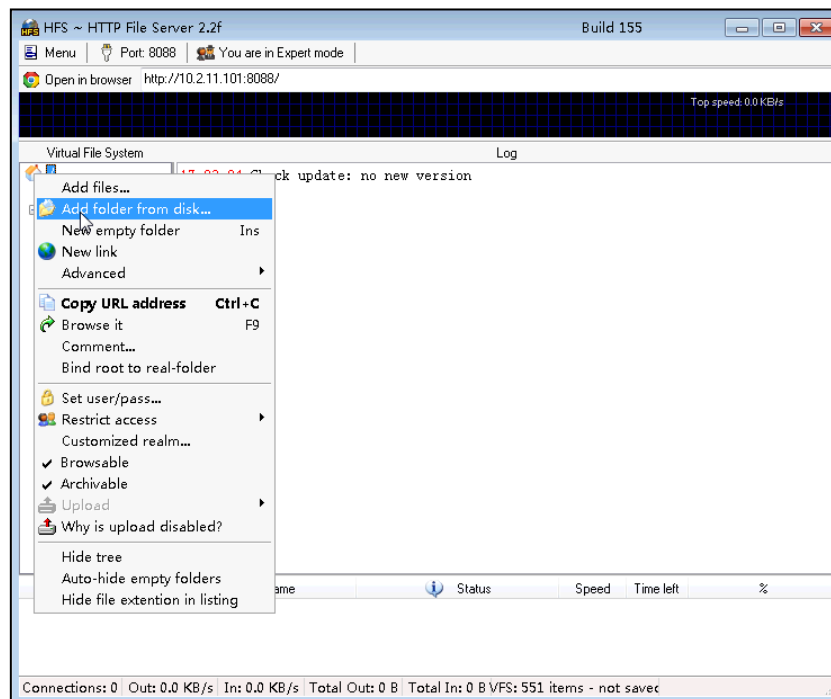
2. Click **Menu** in the main page and select the IP address of the PC from **IP address**.



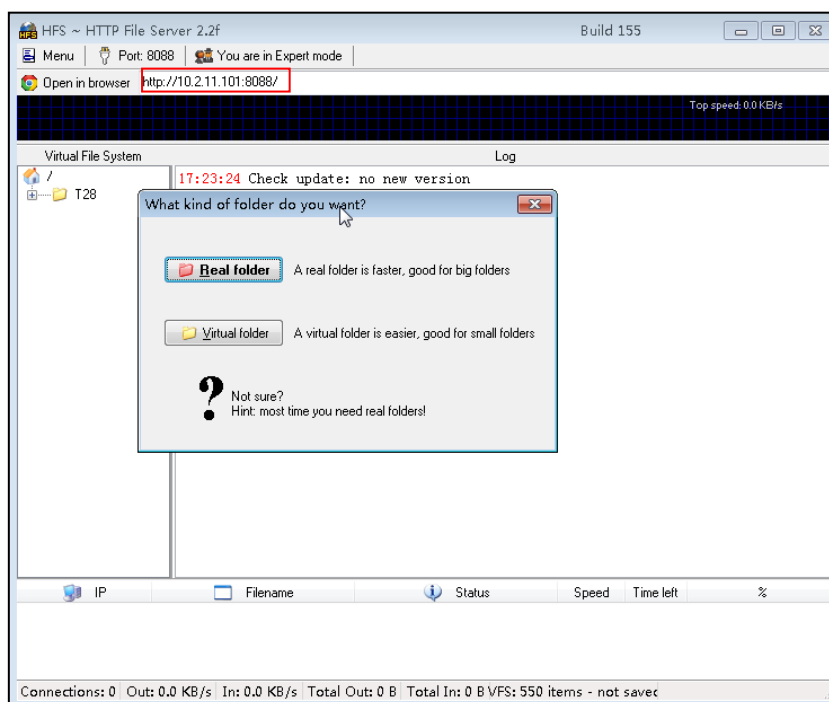
The default HTTP port is 8080. You can also reset the HTTP port (make sure there is no port conflict).



3. Right click the  icon on the left of the main page, select **Add folder from disk** to add the HTTP Server root directory.



4. Locate the root directory from the local system. Select the kind of folder which you want.



5. Check the server URL "http:// IP:Port/" in the "Open in browser" address bar (For example, the server URL "http:// 10.2.11.101:8088/" is shown on the screenshot) . We recommend that you can fill the server URL in the address bar of the web browser and then press <Enter> key to check the HTTP server before provisioning.

Yealink IP phones also support the Hypertext Transfer Protocol with SSL/TLS (HTTPS) protocol for auto provisioning. HTTPS protocol provides the encrypted communication and secure identification. For more information on installing and configuring an Apache HTTPS Server, refer to the network resource.

Configuring a DHCP Server

This section provides instructions on how to configure a DHCP server for windows using DHCP Turbo. You can download this software online:

<http://www.tucows.com/preview/265297> and install it following the setup wizard.

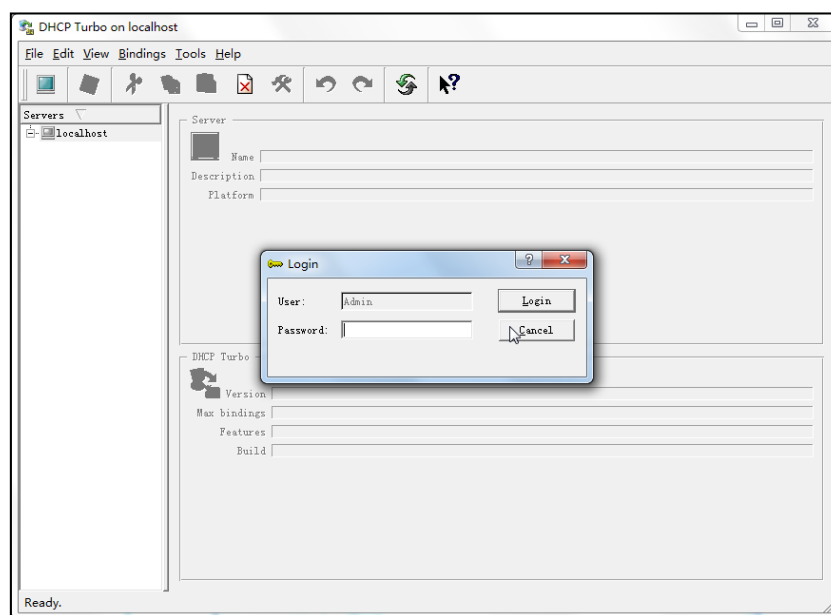
Before configuring the DHCP Turbo, make sure that:

- The firewall on the PC is disabled.
- There is no DHCP server in your local system.

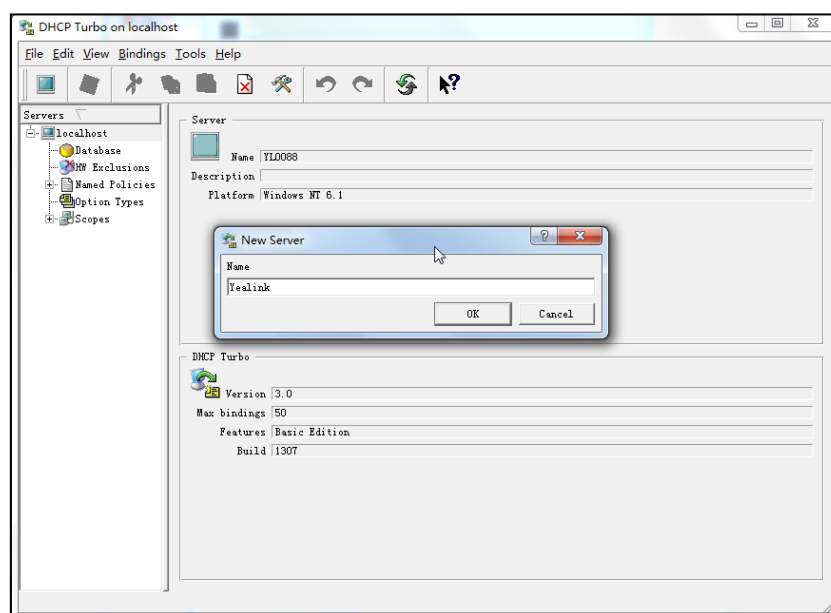
To configure the DHCP Turbo:

1. To start the DHCP Turbo application, double click **localhost**.

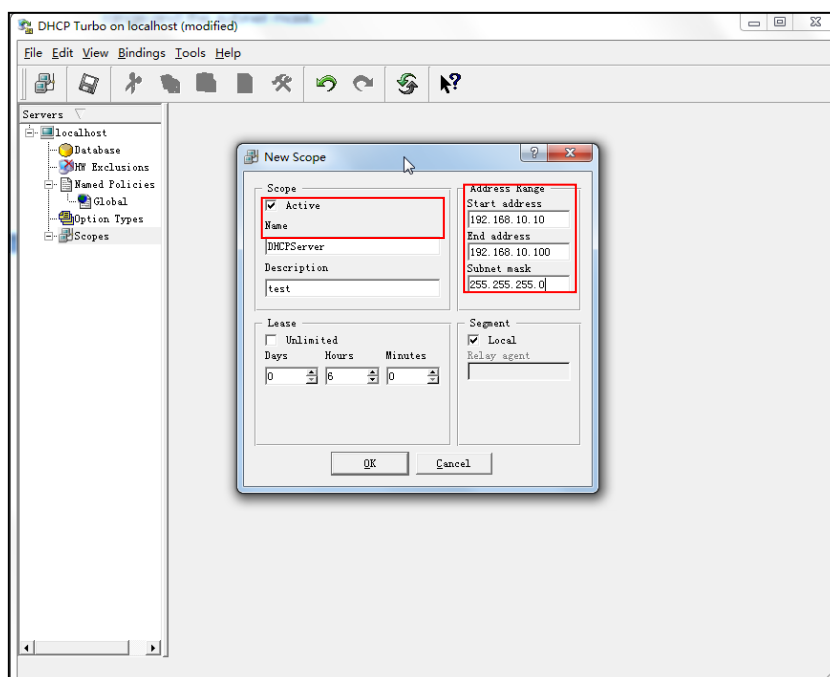
2. Click the **Login** button (the login password is blank) to log in.



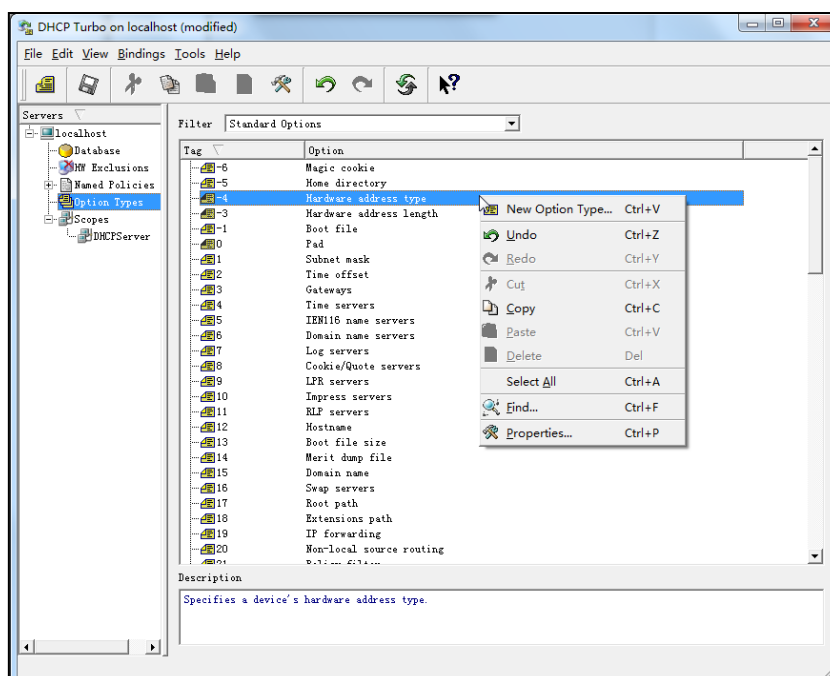
3. You can then edit the existing DHCP server, or you can right click **localhost** and select **New Server** to add a new DHCP server.




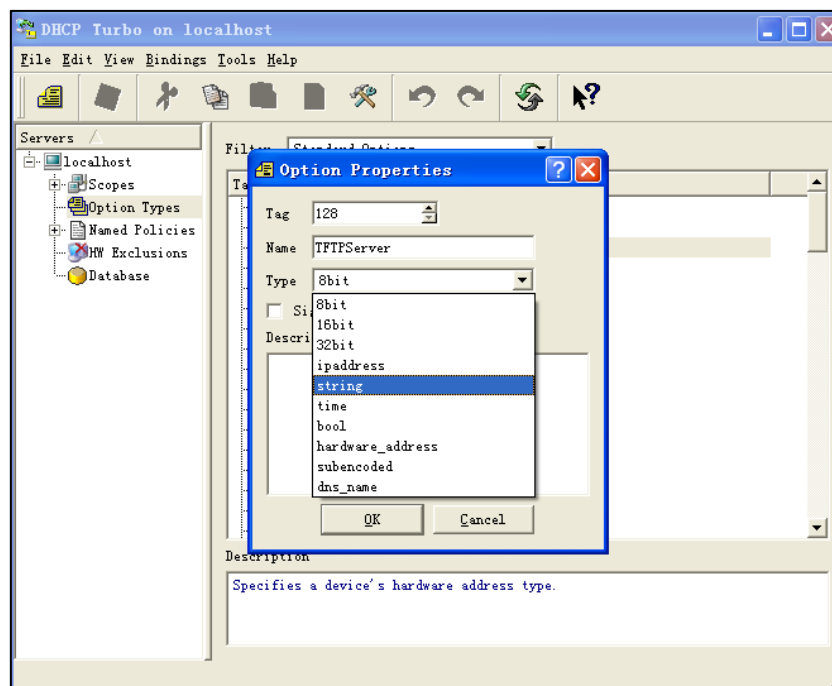
4. Right click **Scopes** and select **New Scope**.
5. Configure the DHCP server name, the DHCP IP range and the subnet mask.
6. Click **OK** to accept the change.



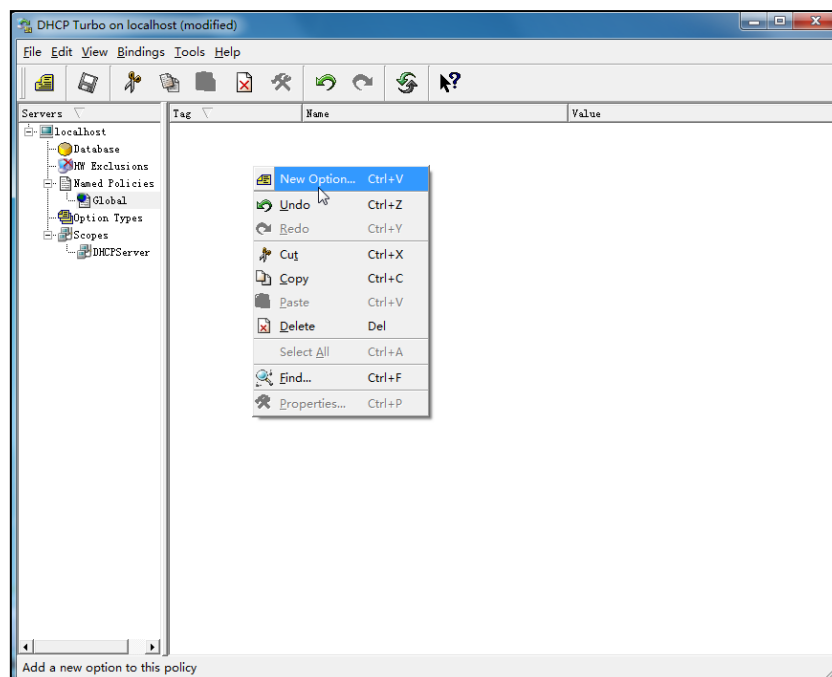
7. You can add a custom option via DHCP Turbo. Select **Option Types**, right click one of the options on the right of the main page, and then select **New Option Type**.



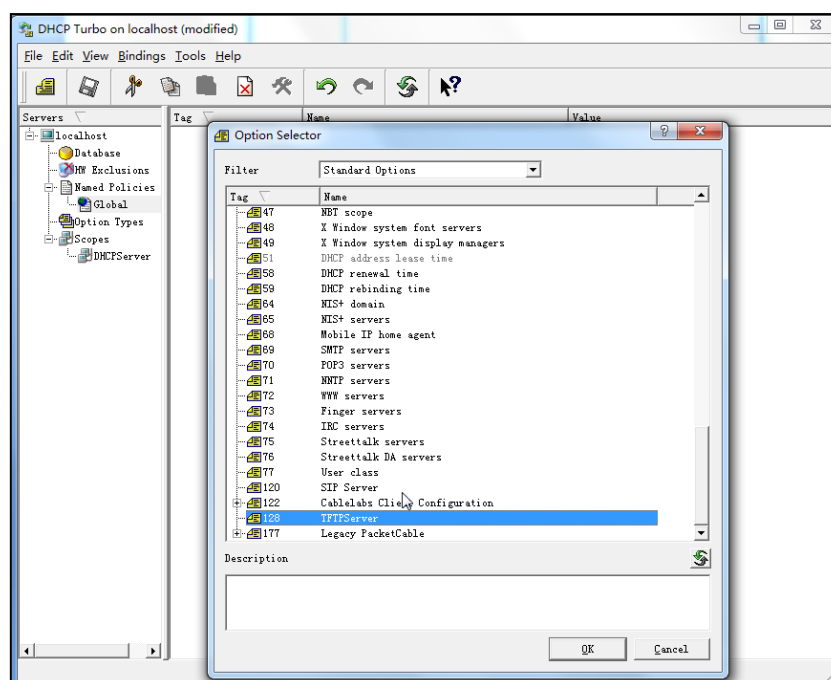
8. Set the custom DHCP option (custom DHCP option tag number ranges from 128 to 254) and select the option type (Yealink supports **String** and **IP Address** option types only). Click the **OK** button to finish setting the option properties. Click  to save the change.



9. Click **Named Policies-->Global**, right click the blank area on the right of the main page and then select **New Option**.




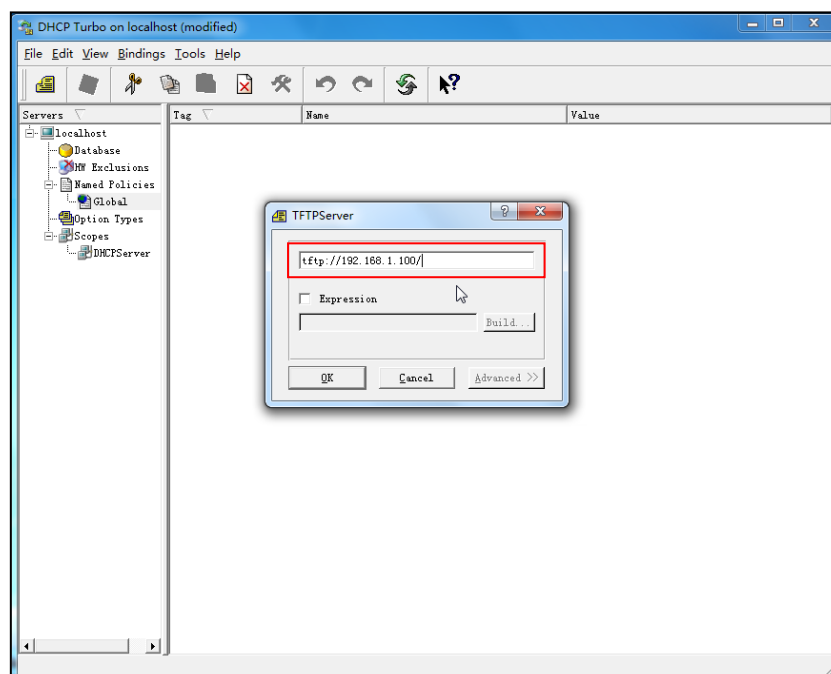
10. Scroll down and double click the custom option 128.



11. Fill the provisioning server address in the input field.

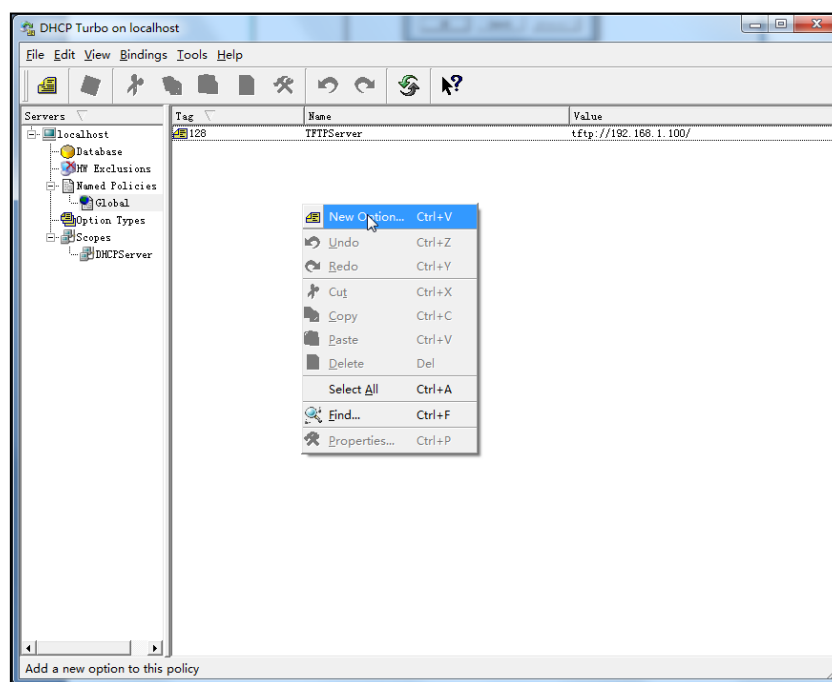
12. Click the **OK** button to finish setting a custom option.

13. Click  to save the change.

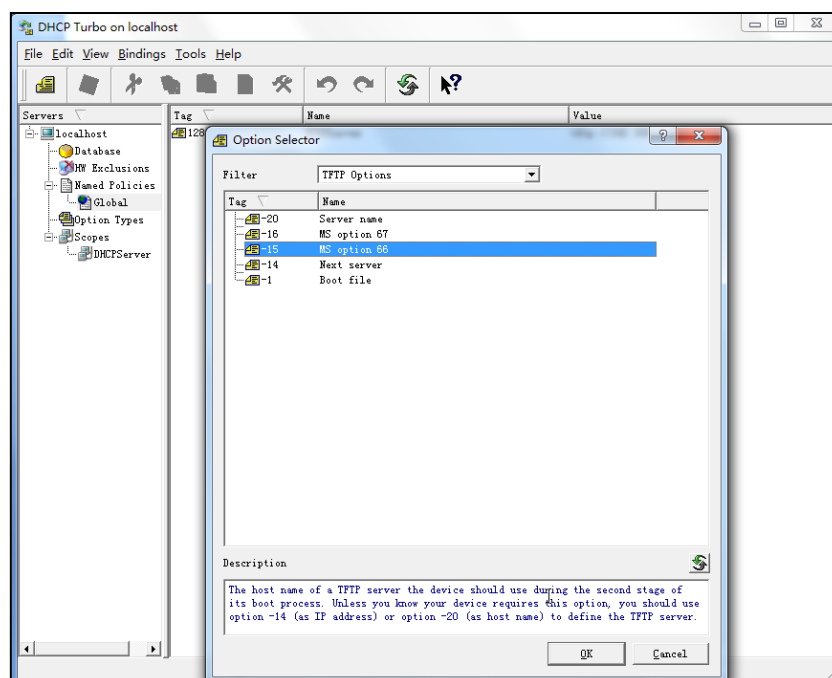


You can add the option 66 via DHCP Turbo. The following shows the detailed processes.

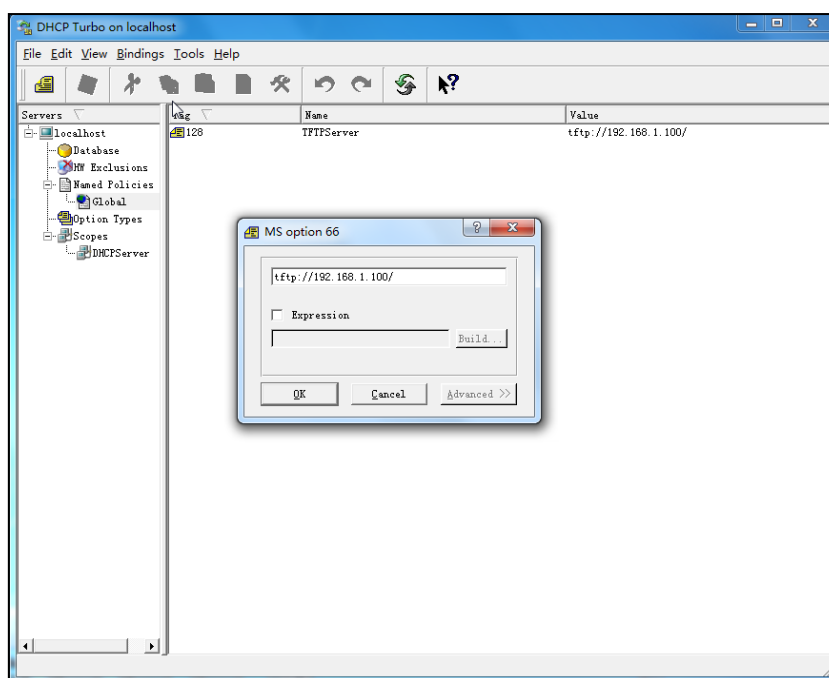
1. Click **Named Policies-->Global**, right click the blank area on the right of the main page and then select **New Option**.




2. Select **TFTP Options** from the pull-down list of **Filter**.
3. Scroll down and double click **MS option 66**.



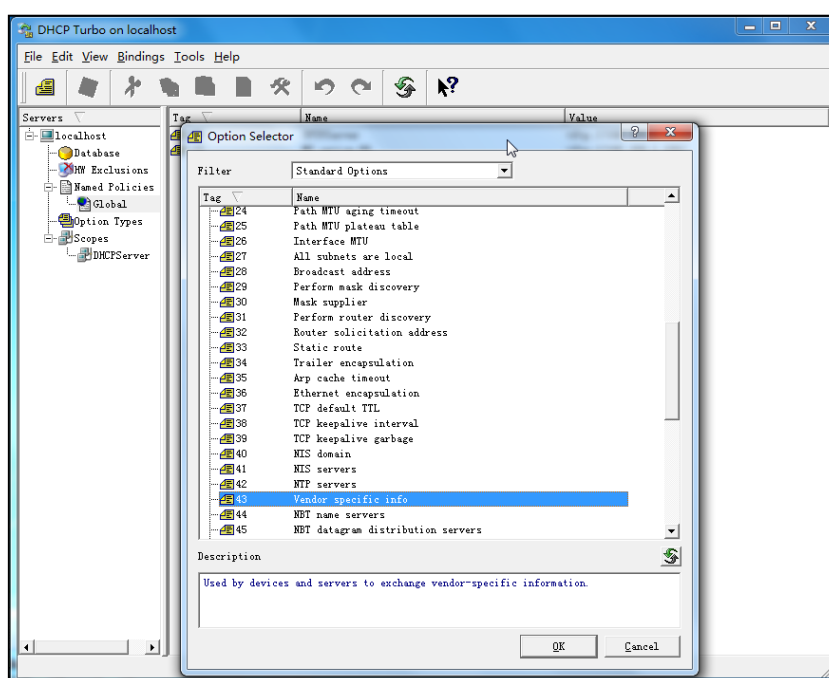
- Fill the provisioning server address in the input field.



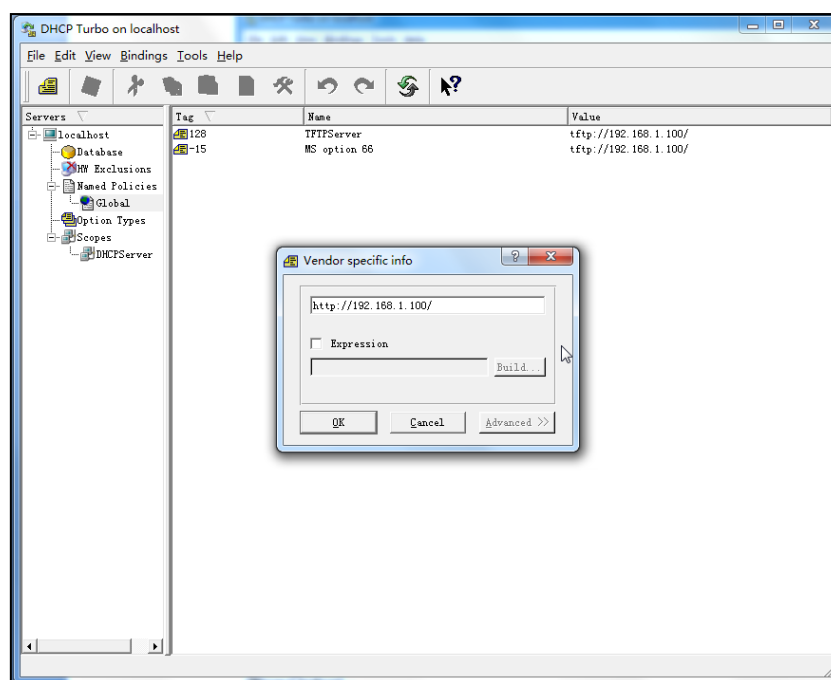
- Click the **OK** button to finish setting a custom option.
- Click  to save the change.


You also can add the option 43. The following shows the detailed processes.

- Click **Named Policies-->Global**, right click the blank area on the right of the main page and then select **New Option**.
- Select **Standard Options** from the pull-down list of **Filter**.
- Scroll down and double click **43**.



4. Fill the provisioning server address in the input field.



5. Click the **OK** button to finish setting a custom option.
6. Click  to save the change.

Customizing a Ringtone Using Cool Edit Pro

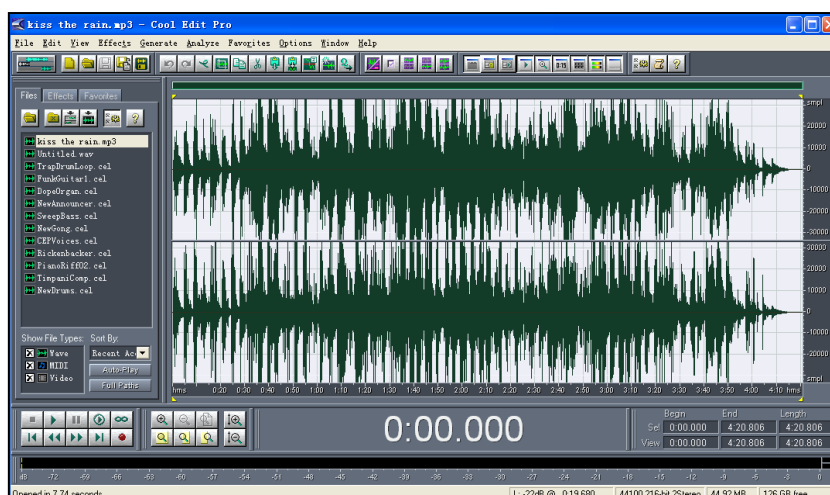
If you have installed the Cool Edit application, double click to open it. Otherwise, you can download the installation package online:

http://www.toggle.com/lv/group/view/kl36218/Cool_Edit_Pro.htm and install it.

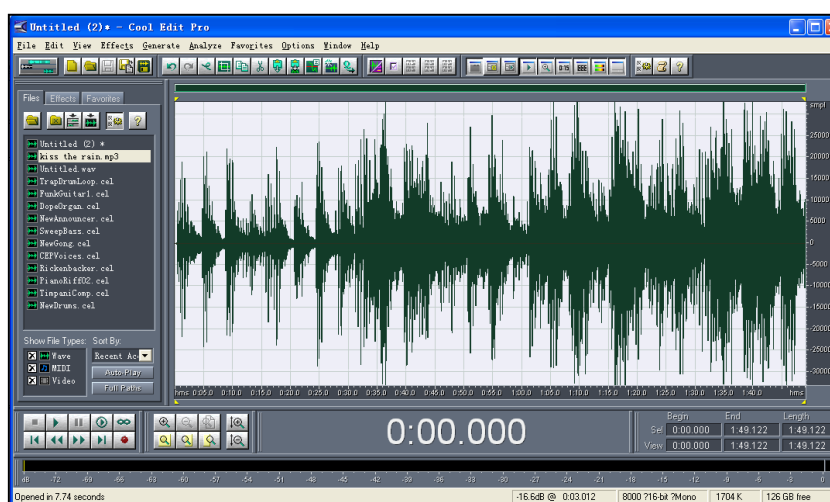
To customize a ringtone using Cool Edit Pro:

1. Open the **Cool Edit Pro** application.
2. Click **File** to open an audio file.
3. Locate the ringtone file, click **Open**, the file is uploaded as follows.

A sample audio file loaded is shown as below:



4. Select and copy the audio waveform.
5. Select **File->New** to create a new file, set the channels as **Mono**, the sample rate as **8000** and the resolution as **16-bit**.
6. Paste the audio waveform to the new file.

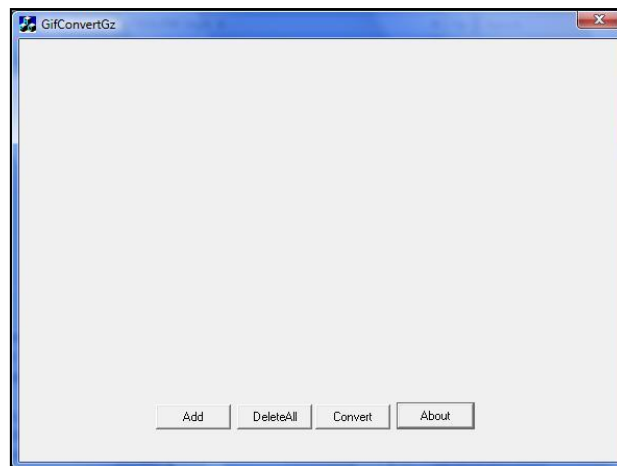


7. Select **File->Save as** to save the new audio file. On the Save waveform page, select the file format as **A/mu-law wave**.

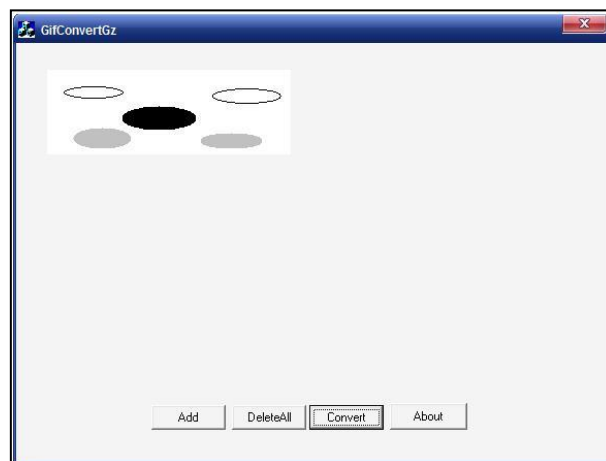
Customizing a Logo File Using PictureExDemo

The original picture format must be *.bmp or *.gif. We recommend placing all files and the PictureExDemo application to the root directory of the PC.

1. Double click the PictureExDemo.exe.



2. Click **Add** button to open a *.bmp or *.gif file.
You can repeat the second step to add multiple original picture files.
3. Click the **Convert** button.



Then you can find the **DOB** logo files in the **adv** directory.

Description of Configuration Parameters in CFG Files

If you want to reset the configuration of a parameter to factory setting, set the value of the parameter to be !NULL! or %NULL%. For example, `local_time.ntp_server1 = %NULL%`. After the auto provisioning process is completed, the NTP server 1 will be reset to “cn.pool.ntp.org”.

Parameter	Permitted Values	Descriptions	Web Setting Path
<code>network.ip_address_mode =</code>	0, 1 or 2	It configures the IP address mode. 0 -IPv4 1 -IPv6 2 -IPv4&IPv6 The default value is 0. It takes effect after reboot.	Network->Internet Port->Mode(IPv4/IPv6)
<code>network.internet_port.type =</code>	0, 1 or 2	It configures the internet port type for IPv4 when the IP address mode is configured as IPv4 or IPv4&IPv6. 0 -DHCP 1 -PPPoE 2 -Static IP Address The default value is 0. It takes effect after reboot.	Network->IPv4 Config
<code>network.internet_port.ip =</code>	IP address	It configures the IPv4 address when the IP address mode is defined as IPv4 or IPv4&IPv6, and the Internet (WAN) port type for IPv4 is configured as Static IP Address. The default value is blank. It takes effect after reboot.	Network->IPv4 Config->Static IP Address->IP Address
<code>network.internet_port.mask =</code>	IP address	It configures the IPv4 subnet mask when the IP address mode is defined as IPv4 or IPv4&IPv6, and the Internet (WAN) port type for IPv4 is configured as Static IP Address. The default value is blank. It takes effect after reboot.	Network->IPv4 Config->Static IP Address->Subnet Mask
<code>network.internet_port.gateway</code>	IP address	It configures the IPv4 default gateway when the IP address mode is configured as IPv4 or IPv4&IPv6, and	Network->IPv4 Config->Static IP Address->

ay =		the Internet (WAN) port type for IPv4 is configured as Static IP Address. The default value is blank. It takes effect after reboot.	Gateway
network.primary_dns =	IP address	It configures the primary IPv4 DNS server when the IP address mode is defined as IPv4 or IPv4&IPv6, and the Internet (WAN) port type for IPv4 is configured as Static IP Address. The default value is blank. It takes effect after reboot.	Network->IPv4 Config->Static IP Address->Primary DNS
network.secondary_dns =	IP address	It configures the secondary IPv4 DNS server when the IP address mode is configured as IPv4 or IPv4&IPv6, and the Internet (WAN) port type for IPv4 is configured as Static IP Address. The default value is blank. It takes effect after reboot.	Network->IPv4 Config->Static IP Address-> Secondary DNS
network.pppoe.user = (not applicable to SIP-T42G/T41P)	String	It configures the user name for PPPoE connection. The default value is blank. It takes effect after reboot.	Network->IPv4 Config->PPPoE-> User Name
network.pppoe.password = (not applicable to SIP-T42G/T41P)	String	It configures the password for PPPoE connection. The default value is blank. It takes effect after reboot.	Network->IPv4 Config->PPPoE-> Password
network.ipv6_internet_port_type =	0 or 1	It configures the Internet (WAN) port type for IPv6 when the IP address mode is configured as IPv6 or IPv4&IPv6. 0-DHCP 1-Static IP Address The default value is 0. It takes effect after reboot.	Network->IPv6 Config
network.ipv6_prefix =	Integer from 0 to 128	It configures the IPv6 prefix when the IP address mode is configured as IPv6 or IPv4&IPv6, and the Internet (WAN) port	Network->IPv6 Config->Static IP Address->IPv6

		<p>type for IPv6 is configured as Static IP Address.</p> <p>The default value is 64.</p> <p>It takes effect after reboot.</p>	Prefix (0~128)
network.ipv6_internet_port.ip =	IP address	<p>It configures the IPv6 address when the IP address mode is configured as IPv6 or IPv4&IPv6, and the Internet (WAN) port type for IPv6 is configured as Static IP Address.</p> <p>The default value is blank.</p> <p>It takes effect after reboot.</p>	<p>Network->IPv6 Config->Static IP Address->IP Address</p>
network.ipv6_internet_port.gateway =	IP address	<p>It configures the IPv6 default gateway when the IP address mode is configured as IPv6 or IPv4&IPv6, and the Internet (WAN) port type for IPv6 is configured as Static IP Address.</p> <p>The default value is blank.</p> <p>It takes effect after reboot.</p>	<p>Network->IPv6 Config->Static IP Address->Gateway</p>
network.ipv6_primary_dns =	IP address	<p>It configures the primary IPv6 DNS server when the IP address mode is configured as IPv6 or IPv4&IPv6, and the Internet (WAN) port type for IPv6 is configured as Static IP Address.</p> <p>The default value is blank.</p> <p>It takes effect after reboot.</p>	<p>Network->IPv6 Config->Static IP Address->Primary DNS</p>
network.ipv6_secondary_dns =	IP address	<p>It configures the secondary IPv6 DNS server when the IP address mode is configured as IPv6 or IPv4&IPv6, and the Internet (WAN) port type for IPv6 is configured as Static IP Address.</p> <p>The default value is blank.</p> <p>It takes effect after reboot.</p>	<p>Network->IPv6 Config->Static IP Address->Secondary DNS</p>
network.ipv6_icmp_v6_enable =	0 or 1	<p>It enables or disables the phone to obtain the IPv6 network settings from the ICMPv6.</p> <p>0-Disabled</p> <p>1-Enabled</p> <p>The default value is 1.</p>	<p>Network->Advanced->ICMPv6 Status->Active</p>

network.dhcp_host_name =	String	<p>It specifies the host name the phone sends via the DHCP option 12.</p> <p>The default value is:</p> <p>SIP-T46G (for SIP-T46G)</p> <p>SIP-T42G (for SIP-T42G)</p> <p>SIP-T41P (for SIP-T41P)</p>	Features->General Information->DHCP Hostname
network.pc_port.enable =	0 or 1	<p>It enables or disables the PC port.</p> <p>0-Disabled</p> <p>1-Enabled</p> <p>The default value is 1.</p>	
network.internet_port.speed_duplex =	0, 1, 2, 3, 4 or 5	<p>It configures the transmission mode and transmission speed of the Internet (WAN) port.</p> <p>0-Auto negotiate</p> <p>1-Full duplex 10Mbps</p> <p>2-Full duplex 100Mbps</p> <p>3-Half duplex 10Mbps</p> <p>4-Half duplex 100Mbps</p> <p>5-Full duplex 1000Mbps (not applicable to T41P)</p> <p>The default value is 0.</p>	Network->Advanced->Port Link->WAN Port Link
network.pc_port.speed_duplex =	0, 1, 2, 3, 4 or 5	<p>It configures the transmission mode and transmission speed of the PC (LAN) port when configured as Router.</p> <p>0-Auto negotiate</p> <p>1-Full duplex 10Mbps</p> <p>2-Full duplex 100Mbps</p> <p>3-Half duplex 10Mbps</p> <p>4-Half duplex 100Mbps</p> <p>5-Full duplex 1000Mbps (not applicable to T41P)</p> <p>The default value is 0.</p>	Network->Advanced->Port Link->PC Port Link
network.vlan.internet_port_enable =	0 or 1	<p>It enables or disables VLAN of the Internet (WAN) port.</p> <p>0-Disabled</p> <p>1-Enabled</p> <p>The default value is 0.</p>	Network->Advanced->VLAN->WAN Port->Active

		It takes effect after reboot.	
network.vlan.internet_port_vlan_id =	Integer from 1 to 4094	It configures VLAN ID of the Internet (WAN) port. The default value is 1. It takes effect after reboot.	Network-> Advanced->VLAN ->WAN Port->VID (1-4094)
network.vlan.internet_port_priority =	Integer from 0 to 7	It configures VLAN priority of the Internet (WAN) port. The default value is 0. It takes effect after reboot.	Network-> Advanced->VLAN ->WAN Port-> Priority
network.vlan.pc_port_enable =	0 or 1	It enables or disables VLAN of the PC (LAN) port. 0 -Disabled 1 -Enabled The default value is 0. It takes effect after reboot.	Network-> Advanced->VLAN ->PC Port->Active
network.vlan.pc_port_vid =	Integer from 1 to 4094	It configures VLAN ID of the PC (LAN) port. The default value is 1. It takes effect after reboot.	Network-> Advanced->VLAN ->PC Port->VID (1-4094)
network.vlan.pc_port_priority =	Integer from 0 to 7	It configures VLAN priority of the PC (LAN) port. The default value is 0. It takes effect after reboot.	Network-> Advanced->VLAN ->PC Port-> Priority
network.vlan.dhcp_enable =	0 or 1	It enables or disables the phone to obtain VLAN settings from the DHCP server. 0 -Disabled 1 -Enabled The default value is 1. It takes effect after reboot.	Network-> Advanced->VLAN ->DHCP VLAN-> Active
network.vlan.dhcp_option =	Integer from 128 to 255	It configures the DHCP option from which the phone will obtain the VLAN settings. You can configure at most five DHCP options, and separate options by comma. The default value is 132. It takes effect after reboot.	Network-> Advanced->VLAN ->DHCP VLAN-> Option

wui.http_enable =	0 or 1	<p>It enables or disables the HTTP protocol for web server access.</p> <p>0-Disabled 1-Enabled</p> <p>The default value is 1.</p> <p>It takes effect after reboot.</p>	<p>Network-></p> <p>Advanced->Web Server->HTTP</p>
wui.https_enable =	0 or 1	<p>It enables or disables the HTTPS protocol for web server access.</p> <p>0-Disabled 1-Enabled</p> <p>The default value is 1.</p> <p>It takes effect after reboot.</p>	<p>Network-></p> <p>Advanced->Web Server->HTTPS</p>
network.port.http =	Integer from 1 to 65535	<p>It configures the HTTP port for web server access.</p> <p>The default value is 80.</p> <p>It takes effect after reboot.</p>	<p>Network-></p> <p>Advanced->Web Server->HTTP Port (1~65535)</p>
network.port.https =	Integer from 1 to 65535	<p>It configures the HTTPS port for web server access.</p> <p>The default value is 443.</p> <p>It takes effect after reboot.</p>	<p>Network-></p> <p>Advanced->Web Server->HTTPS Port (1~65535)</p>
network.port.max_rtpport =	Integer from 1024 to 65535	<p>It configures the maximum local RTP port.</p> <p>The default value is 11800.</p> <p>It takes effect after reboot.</p>	<p>Network-></p> <p>Advanced->Local RTP Port-> Max RTP Port (1~65535)</p>
network.port.min_rtpport =	Integer from 1024 to 65535	<p>It configures the minimum local RTP port.</p> <p>The default value is 11780.</p> <p>It takes effect after reboot.</p>	<p>Network-></p> <p>Advanced->Local RTP Port->Min RTP Port (1~65535)</p>
network.qos.rtpptos =	Integer from 0 to 63	<p>It configures the voice QoS.</p> <p>The default value is 46.</p> <p>It takes effect after reboot.</p>	<p>Network-></p> <p>Advanced->Voice QoS->Voice QoS (0~63)</p>
network.qos.signalptos =	Integer from 0 to 63	<p>It configures the SIP message QoS.</p> <p>The default value is 26.</p> <p>It takes effect after reboot.</p>	<p>Network-></p> <p>Advanced->Voice QoS->SIP QoS (0~63)</p>

network.802_1x.mode =	0, 1, 2, 3 or 4	<p>It configures the 802.1x mode.</p> <p>0-Disabled 1-EAP-MD5 2-EAP-TLS 3-PEAP-MSCHAPv2 4-EAP-TTLS/EAP-MSCHAPv2</p> <p>The default value is 0.</p> <p>It takes effect after reboot.</p>	<p>Network-> Advanced->802.1x ->Mode 802.1x</p>
network.802_1x.identity =	String	<p>It configures the user name for 802.1x authentication.</p> <p>The default value is blank.</p> <p>It takes effect after reboot.</p>	<p>Network-> Advanced->802.1x ->Identity</p>
network.802_1x.md5_password =	String	<p>It configures the password for 802.1x authentication.</p> <p>The default value is blank.</p> <p>It takes effect after reboot.</p>	<p>Network-> Advanced->802.1x ->MD5 Password</p>
network.802_1x.root_cert_url =	URL	<p>It configures the access URL of the root certificates when the 802.1x mode is configured as EAP-TLS, PEAP-MSCHAPV2 or EAP-TTLS/EAP-MSCHAPV2.</p>	<p>Network-> Advanced->802.1x ->CA Certificates</p>
network.802_1x.client_cert_url =	URL	<p>It configures the access URL of the client certificates when the 802.1x mode is configured as EAP-TLS.</p>	<p>Network-> Advanced->802.1x ->Device Certificates</p>
network.vpn_enable =	0 or 1	<p>It enables or disables VPN feature.</p> <p>0-Disabled 1-Enabled</p> <p>The default value is 0.</p> <p>It takes effect after reboot.</p>	<p>Network-> Advanced->VPN-> Active</p>
network.lldp.enable =	0 or 1	<p>It enables or disables LLDP feature.</p> <p>0-Disabled 1-Enabled</p> <p>The default value is 1.</p> <p>It takes effect after reboot.</p>	<p>Network-> Advanced->LLDP-> Active</p>
network.lldp.packet_interval	Integer from 1 to	<p>It configures the interval (in seconds) for the phone to broadcast the LLDP</p>	<p>Network-> Advanced->LLDP-></p>

=	3600	request. The default value is 60. It takes effect after reboot.	Packet Interval (1~3600s)
network.snmp .enable = (not applicable to SIP-T42G/T41P)	0 or 1	It enables or disables SNMP feature. 0 -Disabled 1 -Enabled The default value is 1. It takes effect after reboot.	Network-> Advanced->SNMP ->Active
network.snmp .port = (not applicable to SIP-T42G/T41P)	Integer from 1 to 65535	It configures the SNMP port. The default value is 161. It takes effect after reboot.	Network-> Advanced->SNMP ->Port (0~65535)
network.snmp .trust_ip = (not applicable to SIP-T42G/T41P)	IP address	It configures the IP address(es) of the trusted SNMP server. Multiple IP addresses should be separated by space. The default value is 0.0.0.0. It takes effect after reboot.	Network-> Advanced->SNMP ->Trusted Address
network.span_ to_pc_port =	0 or 1	It enables or disables the phone to span data packets received in the WAN port to the PC port. If it is enabled, all packets from WAN port can be received by PC port. 0 -Disabled 1 -Enabled The default value is 0. It takes effect after reboot.	Network-> Advanced->Span to PC->Span to PC Port
sip.reg_surge_ prevention =	Integer from 0 to 60	It configures the maximum duration (in seconds) for account register after startup. The default value is 0.	Network-> Advanced-> Registration Random-> Registration Random (0~60s)
network.sip.ta g_mac_to_ua. enable =	0 or 1	It enables or disables the phone to add the MAC address to the User-Agent header. 0 -Disabled	

		1-Enabled The default value is 0. It takes effect after reboot.	
syslog.mode	1 or 2	It configures the phone to export log files to a syslog server or the local system. 1-Local 2-Server The default value is 1.	Settings-> Configuration->Export System Log
syslog.server =	IP address	It configures the IP address or domain name of the syslog server when the syslog mode is configured as server. The default value is blank. It takes effect after reboot.	Settings-> Configuration-> Server Name
syslog.log_level =	Integer from 0 to 6	It configures the syslog level used to specify the type of syslog information to be exported. 0 means no syslog information, and 6 means all. The default value is 3. It takes effect after reboot.	Settings-> Configuration->System Log Level
auto_provision.mode =	0 or 1	It enables or disables the power on mode for triggering the auto provisioning process. 0-Disabled 1-Enabled The default value is 1.	Settings->Auto Provision->Power On
auto_provision.pnp_enable =	0 or 1	It enables or disables Plug and Play feature. If it is enabled, the phone will broadcast PnP SUBSCRIBE messages to obtain a provisioning server address after startup. 0-Disabled 1-Enabled The default value is 1.	Settings->Auto Provision->PNP Active
auto_provision.pnp_domain_name =	String	It configures the domain name of the PnP server. The default value is 224.0.1.75.	

auto_provision .pnp_event_vendor =	String	It configures the vendor name of the device. The default value is yealink.	
auto_provision .repeat.enable =	0 or 1	It enables or disables the phone to check the new configuration repeatedly. 0 -Disabled 1 -Enabled The default value is 0.	Settings->Auto Provision->Repeatedly
auto_provision .repeat.minutes =	Integer from 1 to 43200	It configures the interval (in minutes) for the phone to check the new configuration repeatedly. The default value is 1440.	Settings->Auto Provision->Interval (Minutes)
auto_provision .weekly.enable =	0 or 1	It enables or disables the phone to check the new configuration weekly. 0 -Disabled 1 -Enabled The default value is 0.	Settings->Auto Provision->Weekly
auto_provision .weekly.begin_time =	Time Format	It configures the begin time of the day for the phone to check the new configuration weekly. The default value is 00:00.	Settings->Auto Provision->Time
auto_provision .weekly.end_time =	Time Format	It configures the end time of day for the phone to check the new configuration weekly. The default value is 00:00.	Settings->Auto Provision->Time
auto_provision .weekly.mask =	0,1,2,3,4,5,6 or a combination of these digits	It configures the days of the week for the phone to check new configuration weekly. Example: auto_provision.weekly.mask = 01 This means that the phone will check new configuration every Sunday and Monday. The default value is 0123456.	Settings->Auto Provision->Day of Week
auto_provision .server.url =	URL	It configures the URL of the auto provisioning server. The default value is blank.	Settings->Auto Provision->Server URL

auto_provision .server.username =	String	It configures the user name for authentication during auto provisioning. The default value is blank.	Settings->Auto Provision->User Name
auto_provision .server.password =	String	It configures the password for authentication during auto provisioning. The default value is blank.	Settings->Auto Provision->Password
auto_provision .dhcp_option.enable =	0 or 1	It enables or disables the phone to obtain the provisioning server address by detecting DHCP options. 0 -Disabled 1 -Enabled The default value is 1.	Settings->Auto Provision->DHCP Active
auto_provision .dhcp_option.option60_value =	String	It configures the value (vendor name of the device) of DHCP option 60. The default value is yealink.	Settings->Auto Provision->DHCP Option Value
auto_provision .dhcp_option.list_user_options =	Integer from 128 to 254	It configures the custom DHCP option for the provisioning server address. The default value is blank.	Settings->Auto Provision->Custom Option (128~254)
auto_provision .aes_key_16.common =	String	It configures the AES key (16 characters) for decrypting the Common CFG file. The valid characters contain: 0 ~ 9, A ~ Z, a ~ z, # \$ % * +, - . : = ? @ [] ^ _ { } ~. The default value is blank.	Settings->Auto Provision->Common AES Key
auto_provision .aes_key_16.mac =	String	It configures the AES key (16 characters) for decrypting the MAC-Oriented CFG file. The valid characters contain: 0 ~ 9, A ~ Z, a ~ z, # \$ % * +, - . : = ? @ [] ^ _ { } ~. The default value is blank.	Settings->Auto Provision->MAC-Oriented AES Key
autoprovision. X.name = (X ranges from 1 to 50.) (not	String	It configures the name for the auto provisioning. The maximum length of the name is 100 characters. The default value is blank.	

applicable to SIP-T42G/T41P)		It takes effect after reboot.	
autoprovision. X.code = (X ranges from 1 to 50.) (not applicable to SIP-T42G/T41P)	String	It configures the code to trigger auto provisioning. The maximum length of the code is 100 characters. Valid characters are digits, # and *. Example: autoprovision.1.code = *99 The default value is blank. It takes effect after reboot.	
autoprovision. X.url = (X ranges from 1 to 50.) (not applicable to SIP-T42G/T41P)	URL	It configures the URL of auto provisioning server. The default value is blank. It takes effect after reboot.	
autoprovision. X.user = (X ranges from 1 to 50.) (not applicable to SIP-T42G/T41P)	String	It configures the user name for authentication during auto provisioning. The default value is blank. It takes effect after reboot.	
autoprovision. X.password = (X ranges from 1 to 50.) (not applicable to SIP-T42G/T41P)	String	It configures the password for authentication during auto provisioning. The default value is blank. It takes effect after reboot.	
autoprovision. X.com_aes = (X ranges from 1 to 50.) (not applicable to SIP-T42G/T41P)	String	It configures the AES key (16 characters) for decrypting the Common CFG file. The default value is blank. It takes effect after reboot.	

autoprovision. X.mac_aes = (X ranges from 1 to 50.) (not applicable to SIP-T42G/T41P)	String	It configures the AES key (16 characters) for decrypting the MAC-Oriented CFG file. The default value is blank. It takes effect after reboot.	
sip.use_23_as _pound =	0 or 1	It enables or disables the phone to reserve the pound sign when dialing out. 0 -Disabled (convert the pound sign into "%23") 1 -Enabled The default value is 1.	Features->General Information-> Reserve # in User Name
sip.rfc2543_ho ld =	0 or 1	It enables or disables the phone to support RFC 2543 hold (c=0.0.0.0). 0 -Disabled 1 -Enabled The default value is 0.	Features->General Information->RFC 2543 Hold
sip.use_out_b ound_in_dialo g =	0 or 1	It enables or disables the phone to keep sending SIP messages to the outbound server in a dialog. 0 -Disabled 1 -Enabled The default value is 1.	Features->General Information->Use Outbound Proxy In Dialog
watch_dog.en able =	0 or 1	It enables or disables Watch Dog feature. If it is enabled, the phone will reboot automatically when the system is broken down. 0 -Disabled 1 -Enabled The default value is 1.	Settings-> Preference->Watch Dog
redirect.enabl e =	0 or 1	It enables or disables redirection feature. If it is enabled, the IP phone will be redirected to the pre-assigned server for configuration updating during initial	

		bootup. 0 -Disabled 1 -Enabled The default value is 0.	
managements server.enable = (not applicable to SIP-T42G/T41P)	0 or 1	It enables or disables TR069 feature. 0 -Disabled 1 -Enabled The default value is 0. It takes effect after reboot.	Settings->TR069-> Enable TR069
managements server.username = (not applicable to SIP-T42G/T41P)	String	It configures the user name for the phone to authenticate with the ACS. It takes effect after reboot.	Settings->TR069-> ACS Username
managements server.password = (not applicable to SIP-T42G/T41P)	String	It configures the password for the phone to authenticate with the ACS. It takes effect after reboot.	Settings->TR069-> ACS Password
managements server.url = (not applicable to SIP-T42G/T41P)	URL	It configures the access URL of the ACS. It takes effect after reboot.	Settings->TR069-> ACS URL
managements server.connection_request_username = (not applicable to SIP-T42G/T41P)	String	It configures the user name for the phone to authenticate the connection requests. It takes effect after reboot.	Settings->TR069-> Connection Request Username
managements server.connection_request_password = (not applicable to	String	It configures the password for the phone to authenticate the connection requests.	Settings->TR069-> Connection Request Password

SIPT42G/T41P)			
managements server.periodic _inform_enabl e = (not applicable to SIPT42G/T41P)	0 or 1	It enables or disables the phone to report its configuration to the ACS. 0 -Disabled 1 -Enabled The default value is 1. It takes effect after reboot.	Settings->TR069-> Enable Periodic Inform
managements server.periodic _inform_interv al = (not applicable to SIPT42G/T41P)	Integer from 5 to 42946967295	It configures the interval (in seconds) for the phone to report its configuration to the ACS. The default value is 60. It takes effect after reboot.	Settings->TR069-> Periodic Inform Interval (seconds)
transfer.semi_ attend_tran_e nable =	0 or 1	It enables or disables the transferee party's phone to prompt a missed call on the LCD screen before displaying the caller ID. 0 -Disabled 1 -Enabled The default value is 1.	Features->Transfer ->Semi-Attend Transfer
transfer.blind_ tran_on_hook_ enable =	0 or 1	It enables or disables the phone to complete the blind transfer through on-hook. 0 -Disabled 1 -Enabled The default value is 1.	Features->Transfer ->Blind Transfer On Hook
transfer.on_ho ok_trans_ena ble =	0 or 1	It enables or disables the phone to complete the attended transfer through on-hook. 0 -Disabled 1 -Enabled The default value is 1.	Features->Transfer ->Semi Attend Transfer On Hook
transfer.dsske y_deal_type =	0,1 or 2	It defines the line key behavior during an active call when user presses the line key and the line key is configured as a transfer or BLF key. 0 -New Call	Features->Transfer ->Transfer Mode Via Dsskey

		1-Attended Transfer 2-Blind Transfer The default value is 2.	
transfer.transfer_others_after_conf_enable =	0 or 1	It enables or disables the phone to transfer call to the two parties after a local conference call hangup. 0-Disabled 1-Enabled The default value is 0.	Features->Transfer ->Transfer on Conference Hangup
voice.vad =	0 or 1	It enables or disables the voice activity detection. 0-Disabled 1-Enabled The default value is 0.	Settings->Voice->Echo Cancellation ->VAD
voice.cng =	0 or 1	It enables or disables the comfortable noise generator. 0-Disabled 1-Enabled The default value is 1.	Settings->Voice->Echo Cancellation ->CNG
voice.echo_cancellation =	0 or 1	It enables or disables the echo canceller. 0-Disabled 1-Enabled The default value is 1.	Settings->Voice->Echo Cancellation ->ECHO
voice.jitter_adaptive =	0 or 1	It configures the type of jitter buffer. 0-Fixed 1-Adaptive The default value is 1.	Settings->Voice->JITTER BUFFER ->Type
voice.jitter_min =	Integer from 60 to 300	It configures the minimum delay (in milliseconds) of jitter buffer. The default value is 60.	Settings->Voice->JITTER BUFFER ->Min Delay
voice.jitter_max =	Integer from 60 to 300	It configures the maximum delay (in milliseconds) of jitter buffer. The default value is 300.	Settings->Voice->JITTER BUFFER ->Max Delay
voice.jitter_normal =	Integer from 60 to 300	It configures the normal delay (in milliseconds) of jitter buffer. The default value is 120.	Settings->Voice->JITTER BUFFER ->Normal

voice.tone.country =	Custom, Australia, Austria, Brazil, Belgium, China, Czech, Denmark, Finland, France, Germany, Great Britain, Greece, Hungary, Lithuania, India, Italy, Japan, Mexico, New Zealand, Netherlands, Norway, Portugal, Spain, Switzerland, Sweden, Russia, United States, Chile Czech ETSI	It configures the tone type for the phone. The default value is Custom.	Settings->Tones-> Select Country
voice.tone.dial =	String	It customizes the dial tone when the parameter "voice.tone.country" is configured as Custom. tonelist = element[element] [element]... Where element = [!] freq1[+freq2][+freq3][+freq4] /duration Freq: the frequency of the tone (ranges from 200 to 7000 Hz). If the frequency is set to 0Hz, it means silence. A tone can	Settings->Tones-> Dial

		<p>be composited at most four different frequencies.</p> <p>Duration: the duration (in milliseconds) of the ring tone, ranges from 0 to 30000ms.</p> <p>The exclamation point (!) can be added optionally, which means the custom tone will be only played once.</p> <p>You can configure at most eight different tones for one condition. Tones are separated by comma (e.g., 250/200, !0/1000, 200+300/500, 600+700+800+1000/2000).</p>	
voice.tone.ring =	String	<p>It customizes the ring-back tone when the parameter "voice.tone.country" is configured as Custom.</p> <p>The value format is F/D or !F/D. For more information on the value format, refer to the parameter "voice.tone.dial".</p> <p>The default value is blank.</p>	Settings->Tones->Ring Back
voice.tone.busy =	String	<p>It customizes the busy tone when the parameter "voice.tone.country" is configured as Custom.</p> <p>The value format is F/D or !F/D. For more information on the value format, refer to the parameter "voice.tone.dial".</p> <p>The default value is blank.</p>	Settings->Tones->Busy
voice.tone.congestion =	String	<p>It customizes the tone for network congestion when the parameter "voice.tone.country" is configured as Custom.</p> <p>The value format is F/D or !F/D. For more information on the value format, refer to the parameter "voice.tone.dial".</p> <p>The default value is blank.</p>	Settings->Tones->Congestion
voice.tone.call waiting =	String	<p>It customizes the call waiting tone when the parameter "voice.tone.country" is configured as</p>	Settings->Tones->Call Waiting

		<p>Custom.</p> <p>The value format is F/D or !F/D. For more information on the value format, refer to the parameter "voice.tone.dial".</p> <p>The default value is blank.</p>	
voice.tone.dialrecall =	String	<p>It customizes the redial tone when the parameter "voice.tone.country" is configured as Custom.</p> <p>The value format is F/D or !F/D. For more information on the value format, refer to the parameter "voice.tone.dial".</p> <p>The default value is blank.</p>	Settings->Tones->Dial Recall
voice.tone.record =	String	<p>It customizes the tone for call recording when the parameter "voice.tone.country" is configured as Custom.</p> <p>The value format is F/D or !F/D. For more information on the value format, refer to the parameter "voice.tone.dial".</p> <p>The default value is blank.</p>	Settings->Tones->Record
voice.tone.info =	String	<p>It customizes the info tone when the "voice.tone.country" is configured as Custom.</p> <p>The value format is F/D or !F/D. For more information on the value format, refer to the parameter "voice.tone.dial".</p> <p>The default value is blank.</p>	Settings->Tones->Info
voice.tone.stutter =	String	<p>It customizes the stutter tone when the parameter "voice.tone.country" is configured as Custom.</p> <p>The value format is F/D or !F/D. For more information on the value format, refer to the parameter "voice.tone.dial".</p> <p>The default value is blank.</p>	Settings->Tones->Stutter

voice.tone.message = (not applicable to SIP-T42G/T41P)	String	<p>It customizes the message tone when the parameter "voice.tone.country" is configured as Custom.</p> <p>The value format is F/D or !F/D. For more information on the value format, refer to the parameter "voice.tone.dial".</p> <p>The default value is blank.</p>	Settings->Tones->Message
voice.tone.autoanswer =	String	<p>It customizes the auto answer tone when the parameter "voice.tone.country" is configured as Custom.</p> <p>The value format is F/D or !F/D. For more information on the value format, refer to the parameter "voice.tone.dial".</p> <p>The default value is blank.</p>	Settings->Tones->Auto Answer
voice.handfree.spk_vol =	Integer from 0 to 15	<p>It configures the receiving volume of speaker.</p> <p>The default value is 8.</p>	
voice.handset.spk_vol =	Integer from 0 to 15	<p>It configures the receiving volume of handset.</p> <p>The default value is 8.</p>	
voice.headset.spk_vol =	Integer from 0 to 15	<p>It configures the receiving volume of headset.</p> <p>The default value is 8.</p>	
voice.handfree.tone_vol =	Integer from 0 to 15	<p>It configures the dial tone volume of speaker.</p> <p>The default value is 8.</p>	
voice.handset.tone_vol =	Integer from 0 to 15	<p>It configures the dial tone volume of handset.</p> <p>The default value is 8.</p>	
voice.headset.tone_vol =	Integer from 0 to 15	<p>It configures the dial tone volume of headset.</p> <p>The default value is 8.</p>	
voice.side_tone =	Integer from -48 to 0	<p>It configures the volume of the side tone.</p> <p>The default value is -3.</p>	

voice.ring_vol =	Integer from 0 to 15	It configures the volume of ringer. The default value is 8.	
voice.group_s pk_vol =	Integer from 0 to 15	It configures the receiving volume of the group listening mode. The default value is 8.	
voice.call_pre view_mode =	1, 2 or 3	It configures the strategy for ring-back tone. 1 -Ignore: the phone plays the mix of defined tone and received RTP for ring-back tone 2 -Force: the phone discards the received RTP and plays the defined tone for ring-back tone. 3 -Skip: the phone skips the defined tone and plays received RTP for ring-back tone. The default value is 1.	
security.trust_c ertificates =	0 or 1	It configures the source certificates for the phone to authenticate the TLS connection. 0 -Disabled 1 -Enabled The default value is 1.	Security->Trusted Certificates->Only Accept Trusted Certificates
security.ca_ce rt =	0, 1 or 2	It specifies the type of certificates the phone used to authenticate the connecting server. 0 -Default certificates 1 -Custom certificates 2 -All certificates The default value is 0. It takes effect after reboot.	Security->Trusted Certificates->CA Certificates
security.cn_val idation =	0 or 1	It enables or disables the phone to mandatorily validate the CommonName or SubjectAltName of the certificate received from the connecting server. 0 -Disabled 1 -Enabled The default value is 0.	Security->Trusted Certificates-> Common Name Validation

		It takes effect after reboot.	
security.dev_certificate =	0 or 1	<p>It specifies the type of certificates for the phone to send for TLS authentication.</p> <p>0-Default certificates 1-Custom certificates</p> <p>The default value is 0.</p> <p>It takes effect after reboot.</p>	Security->Server Certificates->Device Certificates
security.user_name.user =	String	It configures the user name for web server access.	
security.user_name.admin =	String	It configures the administrator name for web server access.	
security.user_name.var =	String	It configures the var name for web server access.	
security.user_password =	String	<p>It configures the password of the user, var and administrator.</p> <p>The valid value format is user name:password (e.g., admin:admin123).</p>	Security->Password
security.var_enable =	0 or 1	<p>It enables or disables the 3-level permissions (admin, var, user).</p> <p>0-Disabled 1-Enabled</p> <p>The default value is 0.</p> <p>It takes effect after reboot.</p>	
custom_softkey_call_failed.url =	URL	It configures the access URL of the file for custom soft key layout presented on the LCD screen when Call failed.	Settings->Softkey Layout
custom_softkey_call_in.url =	URL	It configures the access URL of the file for custom soft key layout presented on the LCD screen when Call in.	Settings->Softkey Layout
custom_softkey_connecting.url =	URL	It configures the access URL of the file for custom soft key layout presented on the LCD screen when Connecting.	Settings->Softkey Layout
custom_softkey_dialing.url =	URL	It configures the access URL of the file for custom soft key layout presented on the LCD screen when Dialing.	Settings->Softkey Layout

custom_softkey_ring_back.url =	URL	It configures the access URL of the file for custom soft key layout presented on the LCD screen when Ringback.	Settings->Softkey Layout
custom_softkey_talking.url =	URL	It configures the access URL of the customized file for the soft key presented on the LCD screen when Talking.	Settings->Softkey Layout
linekey.X.type = (SIP-T46G: X ranges from 1 to 27. SIP-T42G/T41P: X ranges from 1 to 15.)	Integer	<p>It configures the desired feature for line key X.</p> <p>Valid values are:</p> <p>0-N/A (defaults to line key 7-27 for SIP-T46G and line key 4-15 for SIP-T42G/T41P)</p> <p>1-Conference</p> <p>2-Forward</p> <p>3-Transfer</p> <p>4-Hold</p> <p>5-DND</p> <p>7-Call Return</p> <p>8-SMS (not applicable to SIP-T42G/T41P)</p> <p>9-Directed Pickup</p> <p>10-Call Park</p> <p>11-DTMF</p> <p>12-Voice Mail</p> <p>13-Speed Dial</p> <p>14-Intercom</p> <p>15-Line (defaults to line key 1-6 for SIP-T46G and line key 1-3 for SIP-T42G/T41P)</p> <p>16-BLF</p> <p>17-URL</p> <p>18-Group Listening</p> <p>22-XML Group</p> <p>23-Group Pickup</p> <p>24-Paging</p> <p>25-Record</p> <p>27-XML Browser</p>	DSSKey->Line Key->Type

		34 -Hot Desking 35 -URL Record 38 -LDAP 40 -Prefix 41 -Zero Touch 42 -ACD 45 -Local Group 50 -Keyboard Lock 61 -Directory	
linekey.X.line = (SIP-T46G: X ranges from 1 to 27. SIP-T42G/T41P: X ranges from 1 to 15.)	Integer from 1 to 6	It configures the desired line to apply the key feature. When the key feature is configured to Local Group or XML Group, this parameter is used to specify the desired phone book (or group) when multiple phone books (or groups) are configured on the IP phone. When specifying the line, valid values are: 1 -Line 1 2 -Line 2 3 -Line 3 4 -Line 4 5 -Line 5 6 -Line 6 Line 4-6 are not applicable to the SIP-T42G/T41P IP phones. For local group and XML group, valid values are: 1 stands for the first phone book (or group), 2 stands for the second phone book (or group) and so on.	DSSKey->Line Key->Line
linekey.X.value = (SIP-T46G: X ranges from 1 to 27. SIP-T42G/T41P: X ranges from	String	It configures the value of the key feature. For example, when configuring the key feature to be BLF, it configures the number of the monitored user.	DSSKey->Line Key->Value

1 to 15.)			
<p>linekey.X.extension =</p> <p>(SIP-T46G: X ranges from 1 to 27.</p> <p>SIP-T42G/T41P: X ranges from 1 to 15.)</p>	String	<p>It configures the pickup code for BLF feature.</p> <p>The default value is blank.</p>	DSSKey->Line Key->Extension
<p>linekey.X.label =</p> <p>(SIP-T46G: X ranges from 1 to 27.</p> <p>SIP-T42G/T41P: X ranges from 1 to 15.)</p>	String	<p>It configures the label displaying on the LCD screen for each line key.</p> <p>The default value is blank.</p>	DSSKey->Line Key->Label
<p>programmablekey.X.type =</p> <p>(SIP-T46G: X ranges from 1 to 13.</p> <p>SIP-T42G/T41P: X ranges from 1 to 11.)</p>	Integer	<p>It configures the key feature for the programmable key X.</p> <p>Valid values are:</p> <p>0-N/A</p> <p>2-Forward</p> <p>5-DND</p> <p>6-Redial</p> <p>7-Call Return</p> <p>8-SMS (not applicable to SIP-T42G/T41P)</p> <p>9-Call Pickup</p> <p>13-Speed Dial</p> <p>22-XML Group</p> <p>23-Group Pickup</p> <p>27-XML Browser</p> <p>28-History</p> <p>29-Directory</p> <p>30-Menu</p> <p>31-Switch Account</p> <p>32-New SMS (not applicable to SIP-T42G/T41P)</p>	DSSKey->Programmable Key->Type

		33-Status 34-Hot Desking 40-PTT 43-Local Phone Book 45-Local Group 47-XML Directory	
programablekey.X.line = (SIP-T46G: X ranges from 1 to 13. SIP-T42G/T41P: X ranges from 1 to 11.)	Integer from 1 to 6	It configures the desired line to apply the programmable key feature. When the key feature is configured to Local Group or XML Group, this parameter is used to specify the desired phone book (or group) when multiple phone books (or groups) are configured on the IP phone. For more information on valid values, refer to the parameter "linekey.X.line". When the key feature is configured to History, this parameter is used to specify the type of call history to be displayed. 1 stands for the local call history, and 2 stands for the network history.	DSSKey-> Programmable Key->Line
programablekey.X.value = (SIP-T46G: X ranges from 1 to 13. SIP-T42G/T41P: X ranges from 1 to 11.)	String	It configures the value of the programmable key. For example, when configuring the key feature to be Speed Dial, it configures the number.	DSSKey-> Programmable Key->Value
programablekey.X.label = (X ranges from 1 to 4.)	String	It configures the label displaying on the LCD screen for the soft key. The default value is blank.	DSSKey-> Programmable Key->Label
expansion_module.X.key.Y.type = (X ranges from 1 to 6. Y ranges from	Number	It configures the key feature of the expansion module X key Y.	DSSKey-> Ext Key

1 to 40.)			
expansion_module.X.key.Y.line = (X ranges from 1 to 6. Y ranges from 1 to 40.)	Integer from 1 to 6	It configures the desired line to apply the expansion module key feature. Valid values are the same as those of the parameter "linekey.X.line".	DSSKey->Ext Key
expansion_module.X.key.Y.value = (X ranges from 1 to 6. Y ranges from 1 to 40.) (not applicable to SIP-T42G/T41P)	String	It configures the value of the expansion module key.	DSSKey->Ext Key
expansion_module.X.key.Y.extension = (X ranges from 1 to 6. Y ranges from 1 to 40.) (not applicable to SIP-T42G/T41P)	String	It configures the pickup code for BLF feature. The default value is blank.	DSSKey->Ext Key
expansion_module.X.key.Y.label = (X ranges from 1 to 6. Y ranges from 1 to 40.) (not applicable to SIP-T42G/T41P)	String	It configures the label displaying on the LCD screen of the expansion module for each key. The default value is blank.	DSSKey->Ext Key
phone_setting.page_tip =	0 or 1	It enables or disables the page icon and page switch key LED to indicate	DSSKey->Line key->Enable Page

		<p>different states of line keys.</p> <p>0-Disabled</p> <p>1-Enabled</p> <p>The default value is 0.</p>	Tips
<p>phone_setting</p> <p>.backgrounds</p> <p>=</p>	<p>Default.jpg,</p> <p>1.png,</p> <p>2.png,</p> <p>3.png,</p> <p>4.png,</p> <p>5.png,</p> <p>6.png,</p> <p>7.png,</p> <p>8.png, or</p> <p>9.png</p>	<p>It configures the wallpaper displayed on the phone.</p> <p>Example:</p> <p>phone_setting.backgrounds = 1.png</p> <p>To configure a custom picture (e.g., custom1.png) to be wallpaper, the value format is: Resource:custom1.png</p> <p>The default value is Default.jpg.</p>	<p>Settings->Preference->Wallpaper</p>
<p>phone_setting</p> <p>.show_code403</p> <p>=</p>	String	<p>It configures the display message on the LCD screen when receiving a 403 message.</p> <p>If leaving the field blank, the phone will display the value sent from the server when receiving the 403 message.</p> <p>The default value is blank.</p>	
<p>forward.always.enable</p> <p>=</p>	0 or 1	<p>It enables or disables always forward feature.</p> <p>0-Disabled</p> <p>1-Enabled</p> <p>The default value is 0.</p>	<p>Features->Forward &DND->Always Forward->On/Off</p>
<p>forward.always.target</p> <p>=</p>	String	<p>It configures the target number the phone forwards all incoming calls to.</p>	<p>Features->Forward &DND->Always Forward->Target</p>
<p>forward.always.on_code</p> <p>=</p>	String	<p>It configures the always forward on code.</p>	<p>Features->Forward &DND->Always Forward->On Code</p>
<p>forward.always.off_code</p> <p>=</p>	String	<p>It configures the always forward off code.</p>	<p>Features->Forward &DND->Always Forward->Off Code</p>

forward.busy.enable =	0 or 1	It enables or disables busy forward feature. 0 -Disabled 1 -Enabled The default value is 0.	Features->Forward &DND->Busy Forward->On/Off
forward.busy.target =	String	It configures the target number the phone forwards incoming calls to when busy.	Features->Forward &DND->Busy Forward->Target
forward.busy.on_code =	String	It configures the busy forward on code.	Features->Forward &DND->Busy Forward->On Code
forward.busy.off_code =	String	It configures the busy forward off code.	Features->Forward &DND->Busy Forward->Off Code
forward.no_answer.enable =	0 or 1	It enables or disables no answer forward feature. 0 -Disabled 1 -Enabled The default value is 0.	Features->Forward &DND->No Answer Forward->On/Off
forward.no_answer.target =	String	It configures the target number the phone forwards incoming calls to after a period of ring time.	Features->Forward &DND->No Answer Forward->Target
forward.no_answer.timeout =	Integer from 0 to 20	It configures the waiting ring time before forwarding. The default value is 2.	Features->Forward &DND->No Answer Forward->After Ring Times
forward.no_answer.on_code =	String	It configures the no answer forward on code.	Features->Forward &DND->No Answer Forward->On Code
forward.no_answer.off_code =	String	It configures the no answer forward off code.	Features->Forward &DND->No Answer Forward->Off Code
forward.international.enable =	0 or 1	It enables or disables the phone to forward incoming calls to the international number.	Features->General Information->Fwd International

		0-Disabled 1-Enabled The default value is 1.	
acd.auto_available =	0 or 1	It enables or disables the phone to automatically change the status of the ACD agent to available. 0-Disabled 1-Enabled The default value is 0.	Features->ACD->ACD Auto Available
acd.auto_available_timer =	Integer from 0 to 120	It configures the interval (in seconds) to automatically change the status of the ACD agent to available. The default value is 60.	Features->ACD->ACD Auto Available Timer (0~120s)
action_url.setup_completed =	URL	It configures the action URL the phone sends after startup. The value format is: http(s)://IP address of server/help.xml? variable name=variable value. Valid variable values are: <ul style="list-style-type: none"> • \$mac • \$ip • \$model • \$firmware • \$active_url • \$active_user • \$active_host • \$local • \$remote • \$display_local • \$display_remote • \$call_id Example: action_url.setup_completed = http://192.168.0.20/help.xml?model=\$model	Features->Action URL->Setup Completed
action_url.setup_autop_finish =	URL	It configures the action URL the phone sends after the IP phone finishes auto provisioning.	

action_url.log_on =	URL	It configures the action URL the phone sends after account register. Example: action_url.log_on = http://192.168.0.20/help.xml?ip=\$ip	Features->Action URL->Registered
action_url.log_off =	URL	It configures the action URL the phone sends after account unregister. Example: action_url.log_off = http://192.168.0.20/help.xml?model=\$model	Features->Action URL->Unregistered
action_url.register_failed =	URL	It configures the action URL the phone sends after register failed. Example: action_url.register_failed = http://192.168.0.20/help.xml?model=\$model	Features->Action URL->Register Failed
action_url.off_hook =	URL	It configures the action URL the phone sends when off hook. Example: action_url.off_hook = http://192.168.0.20/help.xml?model=\$model	Features->Action URL->Off Hook
action_url.on_hook =	URL	It configures the action URL the phone sends when on hook. Example: action_url.on_hook = http://192.168.0.20/help.xml?model=\$model	Features->Action URL->On Hook
action_url.incoming_call =	URL	It configures the action URL the phone sends when receiving an incoming call. Example: action_url.incoming_call = http://192.168.0.20/help.xml?model=\$model	Features->Action URL->Incoming Call
action_url.outgoing_call =	URL	It configures the action URL the phone sends when placing a call. Example:	Features->Action URL->Outgoing Call

		<code>action_url.outgoing_call = http://192.168.0.20/help.xml?model=\$ model</code>	
<code>action_url.call _established =</code>	URL	<p>It configures the action URL the phone sends when establishing a call.</p> <p>Example: <code>action_url.call_established = http://192.168.0.20/help.xml?model=\$ model</code></p>	Features->Action URL->Established
<code>action_url.dnd _on =</code>	URL	<p>It configures the action URL the phone sends when DND feature is enabled.</p> <p>Example: <code>action_url.dnd_on = http://192.168.0.20/help.xml?model=\$ model</code></p>	Features->Action URL->Open DND
<code>action_url.dnd _off =</code>	URL	<p>It configures the action URL the phone sends when DND feature is disabled.</p> <p>Example: <code>action_url.dnd_off = http://192.168.0.20/help.xml?model=\$ model</code></p>	Features->Action URL->Close DND
<code>action_url.alw ays_fwd_on =</code>	URL	<p>It configures the action URL the phone sends when always forward feature is enabled.</p> <p>Example: <code>action_url.always_fwd_on = http://192.168.0.20/help.xml?model=\$ model</code></p>	Features->Action URL->Open Always Forward
<code>action_url.alw ays_fwd_off =</code>	URL	<p>It configures the action URL the phone sends when always forward feature is disabled.</p> <p>Example: <code>action_url.always_fwd_off = http://192.168.0.20/help.xml?model=\$ model</code></p>	Features->Action URL->Close Always Forward
<code>action_url.bus y_fwd_on =</code>	URL	<p>It configures the action URL the phone sends when busy forward feature is enabled.</p> <p>Example:</p>	Features->Action URL->Open Busy Forward

		action_url.busy_fwd_on = http://192.168.0.20/help.xml?model=\$ model	
action_url.busy_fwd_off =	URL	It configures the action URL the phone sends when busy forward feature is disabled. Example: action_url.busy_fwd_off = http://192.168.0.20/help.xml?model=\$ model	Features->Action URL->Close Busy Forward
action_url.no_answer_fwd_on =	URL	It configures the action URL the phone sends when no answer forward feature is enabled. Example: action_url.no_answer_fwd_on = http://192.168.0.20/help.xml?model=\$ model	Features->Action URL->Open No Answer Forward
action_url.no_answer_fwd_off =	URL	It configures the action URL the phone sends when no answer forward feature is disabled. Example: action_url.no_answer_fwd_off = http://192.168.0.20/help.xml?model=\$ model	Features->Action URL->Close No Answer Forward
action_url.transfer_call =	URL	It configures the action URL the phone sends when performing a transfer. Example: action_url.transfer_call = http://192.168.0.20/help.xml?model=\$ model	Features->Action URL->Transfer Call
action_url.blind_transfer_call =	URL	It configures the action URL the phone sends when performing a blind transfer. Example: action_url.blind_transfer_call = http://192.168.0.20/help.xml?model=\$ model	Features->Action URL->Blind Transfer
action_url.attended_transfer	URL	It configures the action URL the phone sends when performing an attended	Features->Action URL->Attended

_call =		or a semi-attended transfer. Example: action_url.attended_transfer_call = http://192.168.0.20/help.xml?model=\$ model	Transfer
action_url.hold =	URL	It configures the action URL the phone sends when placing a call on hold. Example: action_url.hold = http://192.168.0.20/help.xml?model=\$ model	Features->Action URL->Hold
action_url.unhold =	URL	It configures the action URL the phone sends when resuming a held call. Example: action_url.unhold = http://192.168.0.20/help.xml?model=\$ model	Features->Action URL->UnHold
action_url.mute =	URL	It configures the action URL the phone sends when muting a call. Example: action_url.mute = http://192.168.0.20/help.xml?model=\$ model	Features->Action URL->Mute
action_url.unmute =	URL	It configures the action URL the phone sends when un-muting a call. Example: action_url.unmute = http://192.168.0.20/help.xml?model=\$ model	Features->Action URL->UnMute
action_url.missed_call =	URL	It configures the action URL the phone sends when missing a call. Example: action_url.missed_call = http://192.168.0.20/help.xml?model=\$ model	Features->Action URL->Missed Call
action_url.call_terminated =	URL	It configures the action URL the phone sends when terminating a call. Example: action_url.call_terminated =	Features->Action URL->Terminated

		http://192.168.0.20/help.xml?model=\$ model	
action_url.call _interrupt =	URL	It configures the action URL the phone sends when canceling the call in the connecting interface. Example: action_url.call_terminated = http://192.168.0.20/help.xml?model=\$ model	
action_url.busy _to_idle =	URL	It configures the action URL the phone sends when changing the state of the phone from busy to idle. Example: action_url.busy_to_idle = http://192.168.0.20/help.xml?model=\$ model	Features->Action URL->Busy to Idle
action_url.idle _to_busy =	URL	It configures the action URL the phone sends when changing the state of the phone from idle to busy. Example: action_url.idle_to_busy = http://192.168.0.20/help.xml?model=\$ model	Features->Action URL->Idle to Busy
action_url.ip_c hange =	URL	It configures the action URL the phone sends when changing the IP address of the phone. Example: action_url.ip_change = http://192.168.0.20/help.xml?model=\$ model	Features->Action URL->IP Changed
action_url.for ward_incomin g_call =	URL	It configures the action URL the phone sends when forwarding an incoming call. Example: action_url.forward_incoming_call = http://192.168.0.20/help.xml?model=\$ model	Features->Action URL->Forward Incoming Call
action_url.reje ct_incoming_c	URL	It configures the action URL the phone sends when rejecting an incoming call.	Features->Action URL->Reject

all =		Example: action_url.reject_incoming_call = http://192.168.0.20/help.xml?model=\$ model	Incoming Call
action_url.call _interrupt =	URL	It specifies the URL the phone sends when canceling the dial-out. Example: action_url.call_interrupt = http://192.168.0.20/help.xml?model=\$ model	
action_url.ans wer_new_inco ming_call =	URL	It configures the action URL the phone sends when answering a new incoming call. Example: action_url.answer_new_incoming_call = http://192.168.0.20/help.xml?model=\$ model	Features->Action URL->Answer New-In Call
action_url.tran sfer_finished =	URL	It configures the action URL the phone sends when finishing transferring a call. Example: action_url.transfer_finished = http://192.168.0.20/help.xml?model=\$ model	Features->Action URL->Transfer Finished
action_url.tran sfer_failed =	URL	It configures the action URL the phone sends when failing to transfer a call. Example: action_url.transfer_failed = http://192.168.0.20/help.xml?model=\$ model	Features->Action URL->Transfer Failed
lang.wui =	English, Chinese, German, French, Italian, Spanish, Turkish or Portuguese	It configures the language of the web user interface. Note: Chinese is not applicable to SIP-42G/T41P IP phones.	Settings-> Preference-> Language

lang.gui =	English, Chinese_S, Chinese_T, German, French, Turkish, Italian, Polish, Spanish or Portuguese	It configures the language of the phone user interface. The default value is English. Note: Chinese_S and Chinese_T are not applicable to SIP-42G/T41P IP phones.	
local_time.time_zone =	String	It configures the time zone. The default value is +8.	Settings-> Time & Date-> Time Zone
local_time.time_zone_name =	String	It configures the time zone name. The default time value is China(Beijing).	Settings ->Time & Date-> Time Zone
local_time.ntp_server1 =	IP address or domain name	It configures the domain name or IP address of the NTP server 1. The default value is cn.pool.ntp.org.	Settings ->Time & Date-> Primary Server
local_time.ntp_server2 =	IP address or domain name	It configures the domain name or IP address of the NTP server 2. The default value is cn.pool.ntp.org.	Settings ->Time & Date-> Secondary Server
local_time.interval =	Integer from 15 to 86400	It configures the interval (in seconds) for the phone to synchronize local time with the NTP server. The default value is 1000.	Settings ->Time & Date-> Synchronism (1~86400s)
local_time.summer_time =	0, 1 or 2	It enables or disables daylight saving time (DST) feature. 0 -Disabled 1 -Enabled 2 -Automatic The default value is 2.	Settings ->Time & Date-> Daylight Saving Time
local_time.dst_time_type =	0 or 1	It configures the way DST works when DST feature is enabled. 0 -DST By Date 1 -DST By Week The default value is 0.	Settings ->Time & Date-> Fixed Type
local_time.start_time =	Time	It configures the time to start DST. Value formats are:	For DST By Date: Settings ->Time &

		<ul style="list-style-type: none"> Month/Day/Hour (for By Date) Month/ Day of Week/ Day of Week Last in Month/ Hour of Day (for By Week) <p>The default value is 1/1/0.</p>	<p>Date-> Start Date</p> <p>For DST By Week:</p> <p>Settings -> Time & Date-> DST Start Month/DST Start Day of Week/ DST Start Day of Week Last in Month/ Start Hour of Day</p>
local_time.end_time =	Time	<p>It configures the time to end DST.</p> <p>Value formats are:</p> <ul style="list-style-type: none"> Month/Day/Hour (for By Date) Month/ Day of Week/ Day of Week Last in Month/ Hour of Day (for By Week) <p>The default value is 12/31/23.</p>	<p>Settings -> Time & Date-> End Date (for DST By Date)</p> <p>Settings -> Time & Date-> DST Stop Month/DST Stop Day of Week/DST Stop Day of Week Last in Month/Stop Hour of Day (for DST By Week)</p>
local_time.offset_time =	Integer from -300 to 300	<p>It configures the offset time (in minutes).</p> <p>The default value is blank.</p>	<p>Settings -> Time & Date-> Offset (minutes)</p>
local_time.manual_time_enable =	0 or 1	<p>It configures the phone to obtain time from NTP server or manual settings.</p> <p>0- NTP</p> <p>1- Manual</p> <p>The default value is 0.</p>	<p>Settings -> Time & Date-> Manual Time</p>
local_time.time_format =	0 or 1	<p>It configures the time format.</p> <p>0-12 Hour</p> <p>1-24 Hour</p> <p>The default value is 1.</p>	<p>Settings -> Time & Date-> Time Format</p>
local_time.date_format =	0, 1, 2, 3, 4, 5 or 6	<p>It configures the date format.</p> <p>Valid values are:</p> <p>0-WWW MMM DD</p> <p>1-DD-MMM-YY</p> <p>2-YYYY-MM-DD</p> <p>3-DD/MM/YYYY</p> <p>4-MM/DD/YY</p>	<p>Settings -> Time & Date-> Date Format</p>

		5-DD MMM YYYY 6-WWW DD MMM The default value is 0.	
local_time.dhcp_time =	0 or 1	It enables or disables the phone to update time with the offset time obtained from the DHCP server. It is only available to the time zone 0. 0-Disabled 1-Enabled The default value is 0.	Settings -> Time & Date-> DHCP Time
hotdesking.startup_register_name_enable =	0 or 1	It enables or disables the phone to provide input field of register name on the hot desking login wizard during startup. 0-Disabled 1-Enabled The default value is 1.	
hotdesking.startup_username_enable =	0 or 1	It enables or disables the phone to show the user name item on the login wizard during startup. 0-Disabled 1-Enabled The default value is 1.	
hotdesking.startup_password_enable =	0 or 1	It enables or disables the phone to show the password item on the login wizard during startup. 0-Disabled 1-Enabled The default value is 1.	
hotdesking.startup_sip_server_enable =	0 or 1	It enables or disables the phone to show the SIP server item on the login wizard during startup. 0-Disabled 1-Enabled The default value is 1.	
hotdesking.startup_outbound_enable =	0 or 1	It enables or disables the phone to show the outbound server item on the login wizard during startup.	

		0-Disabled 1-Enabled The default value is 0.	
hotdesking.ds skey_register_ name_enable =	0 or 1	It enables or disables the phone to show the register name item on the login wizard when pressing the Hot Desking key. 0-Disabled 1-Enabled The default value is 0.	
hotdesking.ds skey_username_ enable =	0 or 1	It enables or disables the phone to show the user name item on the login wizard when pressing the Hot Desking key. 0-Disabled 1-Enabled The default value is 1.	
hotdesking.ds skey_password_ enable =	0 or 1	It enables or disables the phone to show the password item on the login wizard when pressing the Hot Desking key. 0-Disabled 1-Enabled The default value is 1.	
hotdesking.ds skey_sip_server_ enable =	0 or 1	It enables or disables the phone to show the SIP server item on the login wizard when pressing the Hot Desking key. 0-Disabled 1-Enabled The default value is 1.	
hotdesking.ds skey_outbound_ enable =	0 or 1	It enables or disables the phone to show the outbound server item on the login wizard when pressing the Hot Desking key. 0-Disabled 1-Enabled The default value is 0.	

distinctive_ring_tones.alert_info.X.text = (X ranges from 1 to 10.)	String	It configures the internal ringer text for distinctive ringtone.	Settings->Ring->Internal Ringer Text
distinctive_ring_tones.alert_info.X.ringer = (X ranges from 1 to 10.)	Integer from 1 to 8	It configures the desired ring tone for each text. The value ranges from 1 to 8, each digit stands for an appropriate ringtone.	Settings->Ring->Internal Ringer File
auto_redial.enable =	0 or 1	It enables or disables the phone to automatically redial the called number when the called party is temporarily unavailable. 0 -Disabled 1 -Enabled The default value is 0.	Features->General Information->Auto Redial
auto_redial.interval =	Integer from 1 to 300	It configures the interval (in seconds) for the phone to wait before redial. The default value is 10.	Features->General Information->Auto Redial Interval (1~300s)
auto_redial.times =	Integer from 1 to 300	It configures the auto redial times when the called party is temporarily unavailable. The default value is 10.	Features->General Information->Auto Redial Times (1~300)
zero_touch.enable =	0 or 1	It enables or disables the zero touch for the phone to perform provisioning during startup. 0 -Disabled 1 -Enabled The default value is 0.	Settings->Auto Provision->Zero Active
zero_touch.wait_time =	Integer from 0 to 100	It configures the duration time (in seconds) of the phone displaying the zero-sp-touch configuration interface when powered on. The default value is 5.	Settings->Auto Provision->Wait Time
push_xml.server =	URL	It configures the URL of the push XML server.	Features->Remote Control-> Push XML Server IP Address

push_xml.block_in_calling =	0 or 1	<p>It enables or disables the phone to block displaying the push XML interface when in calling status.</p> <p>0-Disabled 1-Enabled</p> <p>The default value is 0.</p>	Features->Remote Control->Block XML In Calling
push_xml.sip_notify =	0 or 1	<p>It enables or disables the phone to use the push XML via SIP NOTIFY message.</p> <p>0-Disabled 1-Enabled</p> <p>The default value is 0.</p>	Features-> Remote Control->SIP Notify
features.action_uri_limit_ip =	IP addresses or any	<p>It configures the IP address of server from which the phone receives the action URI requests. Multiple IP addresses are separated by comma.</p> <p>If the value of this parameter is configured as "any", the phone will receive action URI requests from any IP server.</p>	Features-> Remote Control->Action URI allow IP List
features.action_uri_reboot_now =	0 or 1	<p>It enables or disables the phone to perform reboot during a call when receiving a specific action URI request about reboot.</p> <p>0-Disabled 1-Enabled</p> <p>The default value is 0.</p>	
dialplan.area_code.code =	Number	<p>It configures the area code.</p> <p>The default value is blank.</p>	Settings->Dial Plan->Area Code->Code
dialplan.area_code.min_len =	Integer from 1 to 15	<p>It configures the minimum length of the number prefixed with the area code.</p> <p>The default value is 1.</p>	Settings->Dial Plan->Area Code->Min Length (1-15)
dialplan.area_code.max_len =	Integer from 1 to 15	<p>It configures the maximum length of the number prefixed with the area code.</p> <p>The value must be larger than the minimum length.</p> <p>The default value is 15.</p>	Settings->Dial Plan->Area Code->Max Length (1-15)

dialplan.area _code.line_id = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	Number	It configures lines applying the area code. Line IDs are separated by comma. The default value is blank.	Settings->Dial Plan->Area Code->Account
dialplan.block _out.number.X = (X ranges from 1 to 10.)	String	It configures the block out number. The default value is blank.	Settings->Dial Plan->Block Out->BlockOut Number X
dialplan.block _out.line_id.X = (X ranges from 1 to 10.)	Number	It configures lines applying the block out rule. Line IDs are separated by comma. The default value is blank.	Settings->Dial Plan->Block Out->Account
dialplan.dialn ow.rule.X = (X ranges from 1 to 100.)	String	It configures the dial now rule. The default value is blank.	Settings->Dial Plan->Dial-now-> Rule
dialplan.dialn ow.line_id.X = (X ranges from 1 to 100.)	Number	It configures lines applying the dial now rule. Line IDs are separated by comma. The default value is blank.	Settings->Dial Plan->Dial-now-> Account
dialplan.repla ce.prefix.X = (X ranges from 1 to 100.)	String	It configures the entered number to be replaced. The default value is blank.	Settings->Dial Plan->Replace Rule->Prefix
dialplan.repla ce.replace.X = (X ranges from 1 to 100.)	String	It configures the alternate number to replace the entered number. The default value is blank.	Settings->Dial Plan->Replace Rule->Replace
dialplan.repla ce.line_id.X =	Number	It configures lines applying the replace rule. Line IDs are separated by comma.	Settings->Dial Plan->Replace Rule->Account

		The default value is blank.	
remote_phone_book.data.X.url = (X ranges from 1 to 5.)	URL	It configures the access URL of the remote phone book. The URL cannot contain the character <>"' \.	Directory->Remote Phone Book->Remote URL
remote_phone_book.data.X.name = (X ranges from 1 to 5.)	String	It configures the display name of the remote phone book item.	Directory->Remote Phone Book->Display Name
ldap.enable	0 or 1	It enables or disables LDAP feature for the phone. 0 -Disabled 1 -Enabled The default value is 0.	Directory->LDAP->Enable LDAP
ldap.name_filter =	String	It configures the criteria for searching the contact name attributes. Example: ldap.name_filter = (&{(cn=%)(sn=%)}) The default value is blank.	Directory->LDAP->LDAP Name Filter
ldap.number_filter =	String	It configures the criteria for searching the contact number attributes. Example: ldap.number_filter = (&{(telephoneNumber=%)(mobile=%)(ipPhone=%)}) The default value is blank.	Directory->LDAP->LDAP Number Filter
ldap.host =	IP address or domain name	It configures the IP address or domain name of the LDAP server. The default value is blank.	Directory->LDAP->Server Address
ldap.port =	Integer from 1 to 65535	It configures the port of the LDAP server. The default value is 389.	Directory->LDAP->Port
ldap.base =	String	It configures the LDAP search base which corresponds to the location of the LDAP phone book. Example:	Directory->LDAP->Base

		<p>ldap.base = dc=yealink,dc=cn</p> <p>The default value is blank.</p>	
ldap.user =	String	<p>It configures the user name for accessing the LDAP server.</p> <p>The default value is blank.</p>	Directory->LDAP->User Name
ldap.password =	String	<p>It configures the password for accessing the LDAP server.</p> <p>The default value is blank.</p>	Directory->LDAP->Password
ldap.max_hits =	Integer from 1 to 32000	<p>It configures the maximum of the search results returned by the LDAP server.</p> <p>The default value is 50.</p>	Directory->LDAP->Max Hits (1~32000)
ldap.name_attr =	String	<p>It configures the name attributes of each record to be returned by the LDAP server.</p> <p>Attributes are separated by space.</p> <p>Example:</p> <p>ldap.name_attr =sn cn</p> <p>The default value is blank.</p>	Directory->LDAP->LDAP Name Attributes
ldap.numb_attr =	String	<p>It configures the number attributes of each record to be returned by the LDAP server.</p> <p>Attributes are separated by space.</p> <p>Example:</p> <p>ldap.numb_attr = Mobile iPhone</p> <p>The default value is blank.</p>	Directory->LDAP->LDAP Number Attributes
ldap.display_name =	String	<p>It configures the display name of the contact record displayed on the LCD screen.</p> <p>The value of this parameter must start with “%” symbol.</p> <p>Example:</p> <p>ldap.display_name =%cn</p> <p>The default value is blank.</p>	Directory->LDAP->LDAP Display Name
ldap.version =	2 or 3	<p>It configures the LDAP version.</p> <p>The default value is 3.</p>	Directory->LDAP->Protocol

ldap.call_in_lookup =	0 or 1	<p>It enables or disables the phone to perform an LDAP search when receiving an incoming call.</p> <p>0-Disabled 1-Enabled</p> <p>The default value is 0.</p>	Directory->LDAP->LDAP Lookup For Incoming Call
ldap.ldap_sort =	0 or 1	<p>It enables or disables the phone to sort the search results in alphabetical order or numerical order.</p> <p>0-Disabled 1-Enabled</p> <p>The default value is 0.</p>	Directory->LDAP->LDAP Sorting Results
features.dnd_refuse_code =	404, 480 or 486	<p>It configures the return code when DND mode is activated.</p> <p>404-No Found 480-Temporarily not available 486-Busy here</p> <p>The default value is 480.</p>	Features->General Information->Return Code When DND
features.normal_refuse_code =	404, 480 or 486	<p>It configures the return code when refusing a call.</p> <p>404-No Found 480-Temporarily not available 486-Busy here</p> <p>The default value is 486.</p>	Features->General Information->Return Code When Refuse
features.call_completion_enable = (not applicable to SIP-T42G/T41P)	0 or 1	<p>It enables or disables call completion feature.</p> <p>0-Disabled 1-Enabled</p> <p>The default value is 0.</p>	Features->General Information->Call Completion
features.fwd_mode =	0 or 1	<p>It configures the call forward mode.</p> <p>0-Phone 1-Custom</p> <p>The default value is 0.</p>	Features->Forward & DND->Forward->Mode
features.dnd_mode =	0 or 1	<p>It configures the DND mode.</p> <p>0-Phone 1-Custom</p>	Features->Forward & DND->DND->Mode

		The default value is 0.	
features.dnd.on_code =	String	It configures the DND on code when the DND mode is configured as Phone.	Features->Forward & DND->DND->DND On Code
features.dnd.off_code =	String	It configures the DND off code when the DND mode is configured as Phone.	Features->Forward & DND->DND->DND Off Code
features.dnd.emergency_enable =	0 or 1	It enables or disables the phone to receive the calls from the authorized number when the DND is enabled. 0 -Disabled 1 -Enabled The default value is 0.	Features->Forward & DND->DND->DND Emergency
features.dnd.emergency_authorized_number =	String	It configures the authorized number when the DND is enabled. Multiple numbers are separated by comma. The default value is blank.	Features->Forward & DND->DND->DND Authorized Number
call_waiting.enable =	0 or 1	It enables or disables call waiting feature. 0 -Disabled 1 -Enabled The default value is 1.	Features->General Information->Call Waiting
call_waiting.on_code =	String	It configures the call waiting on code to activate the server-side call waiting feature. The default value is blank.	
call_waiting.off_code =	String	It configures the call waiting off code to deactivate the server-side call waiting feature. The default value is blank.	
call_waiting.tone =	0 or 1	It enables or disables the phone to play the call waiting tone. 0 -Disabled 1 -Enabled The default value is 1.	Features->Audio->Call Waiting Tone
features.intercom.allow =	0 or 1	It enables or disables the phone to automatically answer an incoming	Features->Intercom->Accept Intercom

		intercom call. 0 -Disabled 1 -Enabled The default value is 1.	
features.intercom.mute =	0 or 1	It enables or disables the phone to mute the speaker when answering an intercom call. 0 -Disabled 1 -Enabled The default value is 0.	Features->Intercom ->Intercom Mute
features.intercom.tone =	0 or 1	It enables or disables the phone to play a warning tone when answering an intercom call. 0 -Disabled 1 -Enabled The default value is 1.	Features->Intercom ->Intercom Tone
features.intercom.barge =	0 or 1	It enables or disables the phone to barge in an intercom call. 0 -Disabled 1 -Enabled The default value is 1.	Features->Intercom ->Intercom Barge
features.alert_info_tone =	0 or 1	It enables and disables the IP phone to map the keywords in the Alert-info header to the specified Bellcore ring tones. 0 -Disabled 1 -Enabled The default value is 0.	
features.remote_phonebook.enable =	0 or 1	It enables or disables the phone to perform a remote phone book search when receiving an incoming call. 0 -Disabled 1 -Enabled The default value is 0.	Directory->Remote Phone Book-> Search Remote Phonebook Name
features.remote_phonebook.flash_time =	Integer from 120 to 2592000	It configures the interval (in seconds) for the phone to update the data of the remote phone book from the remote phone book server.	Directory->Remote Phone Book-> Search Flash Time (Seconds)

		The default value is 21600.	
features.hotline_number =	number	It configures the hotline number. The default value is blank.	Features->General Information->Hotline Number
features.hotline_delay =	Integer from 0 to 10	It configures the delay time (in seconds) for the phone to dial out the hotline number automatically. The default value of delay time is 4.	Features->General Information->Hotline Delay (0~10s)
features.dtmf_hide =	0 or 1	It enables or disables the phone to suppress the display of DTMF digits. 0 -Disabled 1 -Enabled The default value is 0.	Features->General Information->Suppress DTMF Display
features.dtmf_hide_delay =	0 or 1	It enables or disables the IP phone to display the DTMF digits for a short period before displaying as asterisks. 0 -Disabled 1 -Enabled The default value is 0.	Features->General Information->Suppress DTMF Display Delay
features.dtmf_repetition =	Integer from 1 to 3	It configures the repetition times for sending the DTMF packets. The default value is 3.	Features->General Information->DTMF Repetition
features.dtmf_transfer =	String	It configures DTMF sequences. It can be consisted of digits, alphabets, * and #. The default value is blank.	Features->General Information->Transfer Send DTMF
features.dtmf_replace_tran =	0 or 1	It enables or disables the phone to send DTMF sequences for transfer function when pressing the transfer soft key or the transfer key. 0 -Disabled 1 -Enabled The default value is 0.	Features->General Information->DTMF Replace Tran
features.play_local_dtmf_tone_enable =	0 or 1	It enables or disables the phone to play a local DTMF tone. 0 -Disabled 1 -Enabled The default value is 1.	Features->General Information->Play Local DTMF Tone

features.headset_prior =	0 or 1	<p>It enables or disables headset prior feature.</p> <p>0-Disabled 1-Enabled</p> <p>The default value is 0.</p>	Features->General Information->Headset Prior
features.headset_training =	0 or 1	<p>It enables or disables dual headset feature.</p> <p>0-Disabled 1-Enabled</p> <p>The default value is 0.</p>	Features->General Information->Dual-Headset
features.busy_tone_delay =	0, 3 or 5	<p>It configures the duration time (in seconds) for the busy tone.</p> <p>The default value is 0.</p>	Features->General Information->Busy Tone Delay (Seconds)
features.send_pound_key =	0 or 1	<p>It enables or disables the phone to send double pound keys when pressing the pound key twice.</p> <p>0-Send one pound key 1-Send double pound keys</p> <p>The default value is 0.</p>	Features->General Information->Send Pound Key
features.pound_key.mode =	0, 1 or 2	<p>It configures the "#" or "*" key as a send key.</p> <p>0-Disabled 1-# key 2-* key</p> <p>The default value is 1.</p>	Features->General Information->Key As Send
features.send_key_tone =	0 or 1	<p>It enables or disables the phone to play key tone when pressing the send key.</p> <p>0-Disabled 1-Enabled</p> <p>The default value is 1.</p>	Features->Audio->Send Sound
features.key_tone =	0 or 1	<p>It enables or disables the phone to play key tone when pressing any key.</p> <p>0-Disabled 1-Enabled</p> <p>The default value is 1.</p>	Features->Audio->Key Tone

features.play_hold_tone.enable =	0 or 1	It enables or disables the phone to play a warning tone when there is a call on hold. 0 -Disabled 1 -Enabled The default value is 1.	Features->General Information->Play Hold Tone
features.play_hold_tone.delay =	Integer	It configures the interval (in seconds) for playing a hold warning tone. The default value is 30.	Features->General Information->Play Hold Tone Delay
features.redial_tone =	Integer	It customizes the redial tone. Example: features.redial_tone = 5	Features->Audio->Redial Tone
features.password_dial.enable =	0 or 1	It enables or disables password dial feature for the IP phone. 0 -Disabled 1 -Enabled The default value is 0.	Features->General Information->PswDial
features.password_dial.length =	Integer	It configures the length of digits to be hidden. The hidden digits are displayed as asterisks on the LCD screen.	Features->General Information->PswLength
features.password_dial.prefix =	String	It configures the prefix of the password-dial number. For example, configure the prefix to be 12 and the length to be 3, when you want to dial the number 123456, the entered number displays as 12***6 on the LCD screen.	Features->General Information->PswPrefix
features.save_call_history =	0 or 1	It enables or disables the phone to save the call history. 0 -Disabled 1 -Enabled The default value is 1.	Features->General Information->Save Call Calllog
features.power_led_on =	0 or 1	It enable or disables the IP phone to turn off the power Indicator LED when it is idle. 0 -Disabled 1 -Enabled	Features->General Information->Close Power Light

		The default value is 1.	
features.auto_answer_delay =	Integer from 1 to 4	It configures the delay time (in seconds) of auto answer. The default value is 1.	
features.dsskey_blind_transfer =	0 or 1	It enables or disables the phone to perform a blind transfer by pressing the predefined transfer DSS key. 0 -Disabled 1 -Enabled The default value is 1.	
features.relogin_offtime =	Integer from 1 to 1000	It configures the web login timeout (in minutes). The default value is 5.	Features->General Information->Auto-Logout Time (1~1000min)
features.direct_ip_call_enable =	0 or 1	It enables or disables the phone to make an IP call directly. 0 -Disabled 1 -Enabled The default value is 1.	Features->General Information->Allow IP Call
features.allow_mute =	0 or 1	It enables or disables the phone to mute an active call. 0 -Disabled 1 -Enabled The default value is 1.	Features->General Information->Allow Mute
features.ringer_device.is_use_headset =	0, 1 or 2	It configures the ringer device when the phone receiving an incoming call. 0 -Use Speaker 1 -Use Headset 2 -Use Headset & Speaker The default value is 0.	Features->Audio->Ringer Device for Headset
features.factory_pwd_enable =	0 or 1	It enables or disables the phone to prompt for the administrator password when you long press the OK key to reset the phone to factory defaults. 0 -Disabled 1 -Enabled The default value is 0.	

features.pickup_group_pickup_enable =	0 or 1	It enables or disables the phone to display the GPickup soft key when the phone is in the pre-dialing interface. 0 -Disabled 1 -Enabled The default value is 0.	Features->Call Pickup->Group Call Pickup
features.pickup_group_pickup_code =	String	It configures the group call pickup code. The default value is blank.	Features->Call Pickup->Group Call Pickup Code
features.pickup_direct_pickup_enable =	0 or 1	It enables or disables the phone to display the DPickup soft key when the phone is in the pre-dialing interface. 0 -Disabled 1 -Enabled The default value is 0.	Features->Call Pickup->Directed Call Pickup
features.pickup_direct_pickup_code =	String	It configures the directed call pickup code. The default value is blank.	Features->Call Pickup->Directed Call Pickup Code
features.pickup_blf_visual_enable =	0 or 1	It enables or disables the phone to display a visual alert when the monitored user receives an incoming call. 0 -Disabled 1 -Enabled The default value is 0.	Features->Call Pickup->Visual Alert for BLF Pickup
features.pickup_blf_audio_enable =	0 or 1	It enables or disables the phone to play an audio alert when the monitored user receives an incoming call. 0 -Disabled 1 -Enabled The default value is 0.	Features->Call Pickup->Audio Alert for BLF Pickup
features.blf_and_callpark_idle_led_enable =	0 or 1	It enables or disables the phone to turn off the BLF key LED when the monitored user is idle. 0 -Disabled 1 -Enabled The default value is 0.	Features->General Information->LED Off in Idle

features.idle_talk_power_led_flash_enable =	0 or 1	<p>It enables or disables the power LED indicator when the phone is idle, in the pre-dialing screen or during a call.</p> <p>0-Disabled 1-Enabled</p> <p>The default value is 0.</p>	
features.voice_mail_tone_enable =	0 or 1	<p>It enables or disables the phone to play the warning tone when receiving a voice mail.</p> <p>0-Disabled 1-Enabled</p> <p>The default value is 1.</p>	
features.group_listen_intalking_enable =	0 or 1	<p>It enables or disables the phone to enter into the group listening mode when pressing the speakerphone key or picking up the handset during a call.</p> <p>0-Disabled 1-Enabled</p> <p>The default value is 1.</p>	
features.blf_filter_value =	0 or 1	<p>It enables or disables the phone to filter the value configured for the BLF key.</p> <p>0-Disabled 1-Enabled</p> <p>The default value is 0.</p>	
features.blf_list_version =	0 or 1	<p>It enables or disables the phone to deal with the Version header in the BLF NOTIFY message sent by the server.</p> <p>0-Disabled 1-Enabled</p> <p>The default value is 0.</p>	
features.auto_release_bla_line =	0 or 1	<p>It enables or disables the server to release the BLA line automatically.</p> <p>0-Disabled 1-Enabled</p> <p>The default value is 0.</p>	
features.ldap_input_type =	0, 1, 2 or 3	<p>It configures the input mode for the LDAP search screen.</p>	

		0-2aB 1-123 2-abc 3-ABC The default value is 0.	
features.partition_tone =	0 or 1	It enables or disables the phone with active accounts to play tones in the dialing interface differently from the phone with no active accounts. 0-Disabled 1-Enabled The default value is 0.	
features.fwd_diversion_enable =	0 or 1	It enables or disables forward diversion feature. 0- Disabled 1-Enabled The default value is 1.	Features->General Information->Diversion/History-Info
features.hold_trans_delay =	Integer from 1 to 60	It configures the delay time (in milliseconds) before transferring a call. The default value is 0.	
multicast.codec =	PCMU PCMA G729 G722 G723_53 G726_16 G726_24 G726_32 G726_40	It configures the codec of multicast paging. The default value is G722.	Features->General Information->Multicast Codec
multicast.receive_priority_enable =	0 or 1	It enables or disables the phone to handle the incoming multicast paging calls when there is a multicast paging call on the phone. 0-Disabled 1-Enabled The default value is 1.	Directory->Multicast IP->Paging Priority Active

multicast.receive_priority.priority =	Integer from 0 to 10	It configures the priority of multicast paging calls. The default value is 10.	Directory-> Multicast IP-> Paging Barge
multicast.listen_address.X.ip_address = (X ranges from 1 to 10.)	String	It configures the listening multicast IP address and port number for the phone. The default value is blank. Example: multicast.listen_address.1.ip_address = 224.5.6.20:10008	Directory-> Multicast IP-> Listening Address
multicast.listen_address.X.label = (X ranges from 1 to 10)	String	It configures the label displayed on the LCD screen when receiving the multicast paging. The default value is blank.	Directory-> Multicast IP->Label
phone_setting.predial_auto_dial =	0 or 1	It enables or disables the phone to automatically dial out the entered digits in the pre-dialing interface. 0 -Disabled 1 -Enabled The default value is 0.	Settings-> Preference->Live Dialpad
phone_setting.inter_digit_time =	Integer from 1 to 14	It configures the time (in seconds) for the phone to automatically dial out the entered digits without pressing the send key. The default value is 4.	Settings-> Preference->Inter Digit Time (1~14s)
phone_setting.lock =	0 or 1	It enables or disables keypad lock feature. 0 -Disabled 1 -Enabled The default value is 0.	Features->Phone Lock->Keypad Lock Enable
phone_setting.phone_lock.lock_key_type =	0, 1 or 2	It configures the keypad lock type. 0 - All Keys 1 -Function Key 2 - Menu Key The default value is 0.	Features->Phone Lock-> Keypad Lock Type
phone_setting.phone_lock.u	Integer	It configures the password for unlocking the keypad.	Features->Phone Lock->Phone

nlock_pin =		The default value is 123.	Unlock PIN (0~15 Digital)
phone_setting .phone_lock.lock_time_out =	Integer from 0 to 3600	It configures the interval (in seconds) to automatically lock the keypad. The default value is 0 (the keypad can be locked only by pressing the keypad lock key).	Features->Phone Lock->Phone Lock Time Out (0~3600s)
phone_setting .ring_type =	Ring1.wav, Ring2.wav, Ring8.wav	It configures the ringtone for the phone. Example: phone_setting.ring_type = Ring1.wav The default value is Ring1.wav. Note: Ring 6-8 are not applicable to the SIP-T42G/T41P IP phones.	Settings->Preference->Ring Type
phone_setting .active_backlight_level = (not applicable to SIP-T42G/T41P)	Integer from 1 to 10	It configures the level of the active backlight intensity. The default value is 8.	Settings->Preference->Backlight On Intensity
phone_setting .inactive_backlight_level = (not applicable to SIP-T42G/T41P)	0 or 1	It configures the phone to go out or reduce intensity of the backlight on the LCD screen after a period of inactivity. 0 -Off 1 -Low The default value is 1.	Settings->Preference->Backlight Idle Intensity
phone_setting .backlight_time =	1, 60, 120, 300, 600 or 1800 (for T46G) 0, 1,2,5,10 or 30 (for T42G/T41P)	It configures the backlight time (in seconds). For SIP-T46G: 1 -Always on 60 -1min 120 -2min 300 -5min 600 -10min 1800 -30min The default value is 1. For SIP-T42G/T41P: 0 -Always on 1 -1min	Settings->Preference->Backlight Time

		2-2min 5-5min 10-10min 30-30min	
phone_setting .ring_for_transfer =	Ring1.wav Ring2.wav Ring8.wav	It configures the ringtone when the phone fails to transfer a call. Note: Ring 6-8 are not applicable to the SIP-T42G/T41P IP phones.	
phone_setting .logon_wizard =	0 or 1	It enables or disables the phone to show the logon wizard during startup. 0-Disabled 1-Enabled The default value is 0.	Features->General Information->Logon Wizard
phone_setting .is_deal180 =	0 or 1	It enables or disables the phone to deal with the 180 SIP message received after the 183 SIP message. 0-Disabled 1-Enabled The default value is 1.	Features->General Information->180 Ring Workaround
phone_setting .dialnow_delay =	Integer from 1 to 14	It configures the delay time (in seconds) for the dial-now rule. The default value is 1.	Features->General Information->Time-Out For Dial-Now Rule.
phone_setting .custom_softkey_enable =	0 or 1	It enables or disables customizing the softkey layout. 0-Disabled 1-Enabled The default value is 0.	Settings->Softkey Layout->Custom Softkey
phone_setting .headsetkey_mode =	0 or 1	It configures headset mode precedence during a call. 0-Always use (pressing the speakerphone key and picking up the handset are not effective when the headset mode is activated) 1-Use as normal The default value is 1.	
phone_setting .emergency.n	Phone number	It configures emergency numbers. Emergency numbers are separated by	Features->Phone Lock->Emergency

umber =		comma. The default value is 120, 911 and 110.	
phone_setting .search_when _dialing_enable =	0 or 1	It enables or disables T9 predictive text in the dialing screen. 0 -Disabled 1 -Enabled The default value is 0.	
super_search. recent_call =	0 or 1	It enables or disables recent call in dialing feature. If it is enabled, you can view the placed calls list when the phone is in the pre-dialing screen. 0 -Disabled 1 -Enabled The default value is 0.	Directory-> Setting->Recent Call In Dialing
firmware.url =	URL	It configures the access URL of firmware file.	
ringtone.url =	URL	It configures the access URL of the customized ringtone file.	
ringtone.delete =	URL	It deletes all customized ringtone files. The valid value is: http://localhost/all.	
gui_lang.url =	URL	It configures the access URL of the language file.	
gui_lang.delete =	URL	It deletes all customized language files. The valid value is: http://localhost/all.	
wallpaper_upload.url = (not applicable to SIP-T42G/T41P)	URL	It configures the access URL of the wallpaper image.	
trusted_certificates.url =	URL	It configures the access URL of the trusted certificate file.	
trusted_certificates.delete =	URL	It deletes all uploaded trusted certificate files. The valid value is: http://localhost/all.	

server_certificate.url =	URL	It configures the access URL of the server certificate file.	
server_certificate.delete =	URL	It deletes all uploaded server certificate files. The valid value is: http://localhost/all.	
local_contact.data.url =	URL	It configures the access URL of the local contact file.	
auto_dst.url =	URL	It configures the access URL of the DST Time file.	
dialplan_dialnow.url =	URL	It configures the access URL of the dial-now rule file.	
dialplan_replace_rule.url =	URL	It configures the access URL of the replace rule file.	
custom_factory_configuration.url =	URL	It configures the access URL of the customized factory configuration file.	
configuration.url =	URL	It configures the access URL of the customized configuration file.	
call_list.url =	URL	It configures the access URL of the call list. It takes effect after reboot.	
openvpn.url =	URL	It configures the access URL of the openVPN *.tar file.	
custom_mac_cfg.url =	URL	It configures the access URL of the custom MAC-Oriented CFG file.	
local_contact.data_photo_tar.url = (not applicable to SIP-T42G/T41P)	URL	It configures the access URL of the local contact photo.	
web_item_level.url =	URL	It configures the access URL of the file, which defines 3-level access permissions for web user interface. It takes effect after reboot.	
directory_setting.url =	URL	It configures the access URL of the directory setting file.	

super_search. url =	URL	It configures the access URL of the Search Source List setting file.	
account.X.enable = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0 or 1	It enables or disables the account X. 0 -Disabled 1 -Enabled The default value is 0.	Account->Register ->Line Active
account.X.label = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	String	It configures the label displayed on the LCD screen for account X. The default value is blank.	Account->Register ->Label
account.X.display_name = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	String	It configures the display name for account X. The default value is blank.	Account->Register ->Display Name
account.X.auth_name = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	String	It configures the user name for register authentication for account X. The default value is blank.	Account->Register -> Register Name
account.X.password = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P:	String	It configures the password for register authentication for account X. The default value is blank.	Account->Register ->Password

X ranges from 1 to 3.)			
<p>account.X.use_r_name =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	String	<p>It configures the register user name for account X.</p> <p>The default value is blank.</p>	<p>Account->Register</p> <p>-> User Name</p>
<p>account.X.sip_server.Y.address =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.</p> <p>Y ranges from 1 to 2.)</p>	IP address or domain name	<p>It configures the IP address or domain name of server Y for account X.</p>	<p>Account->Register</p> <p>-> SIP Server Y</p> <p>-> Server Host</p>
<p>account.X.sip_server.Y.port =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.</p> <p>Y ranges from 1 to 2.)</p>	Integer from 1 to 65535	<p>It configures the port of server Y for account X.</p> <p>The default value is 5060.</p>	<p>Account->Register</p> <p>-> SIP Server Y</p> <p>-> Port</p>
<p>account.X.sip_server.Y.expires =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.</p>	Integer from 30 to 2147483647	<p>It configures the registration expiration time (in seconds) to SIP server Y for account X.</p> <p>The default value is 3600.</p>	<p>Account->Register</p> <p>-> SIP Server Y</p> <p>-> Server Expires</p>

Y ranges from 1 to 2.)			
<p>account.X.sip_server.Y.retry_counts =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.</p> <p>Y ranges from 1 to 2.)</p>	<p>Integer</p> <p>from 0 to 20</p>	<p>It configures the times for the phone to retransmit the request when the SIP server Y is unavailable or there is no respond from the SIP server Y for account X.</p> <p>The default value is 3.</p>	<p>Account->Register</p> <p>->SIP Server Y</p> <p>->Server Retry Counts</p>
<p>account.X.transport =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	<p>0, 1, 2 or 3</p>	<p>It configures the transport type for account X.</p> <p>0-UDP</p> <p>1-TCP</p> <p>2-TLS</p> <p>3-DNS-NAPTR</p> <p>If it is set to 3 (DNS-NAPTR) and no server port is given, the phone performs the DNS NAPTR and SRV queries for the transport protocol, port and IP address.</p> <p>The default value is 0.</p>	<p>Account->Register</p> <p>->Transport</p>
<p>account.X.naptr_build =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	<p>0 or 1</p>	<p>It specifies the transport protocol the phone constructs the SRV query for when no NAPTR records are returned.</p> <p>0-UDP</p> <p>1-Multiple Types</p> <p>The default value is 0.</p>	
<p>account.X.fallback_redundancy_type =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P:</p>	<p>0 or 1</p>	<p>It configures the registration mode for the phone in fallback mode.</p> <p>0-Concurrent registration: the phone registers to the working server and fallback server at the same time.</p> <p>1-Successive registration: the phone registers to the working server first.</p>	

X ranges from 1 to 3.)		When the working server fails, the phone registers to the fallback server. The default value is 0.	
account.X.failback.timeout = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	Integer from 10 to 2147483647	It configures the time interval (in seconds) for the phone to detect whether the working server is available by sending the registration request after the fallback server takes over the call control. It is only applicable to the successive registration mode. The default value is 120.	
account.X.sip_server.Y.failback_mode = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3. Y ranges from 1 to 2.)	0, 1, 2, or 3	It configures the way in which the phone fails back to the primary server for call control when in the failover mode. 0 -newRequests: all requests are forwarded to the primary server first, regardless of the secondary server that was used. 1 -DNSTTL: the phone will retry to use the primary server after the timeout of the DNSTTL configured for the SIP server. 2 -registration: the phone will retry to use the primary server when the SIP server's registration requires renewal. 3 -duration: the phone will retry to use the primary server after the timeout defined by the parameter "account.x.failback_timeout". The default value is 0.	
account.X.sip_server.Y.failback_timeout = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	Integer from 0 to 65535	It configures the time interval (in seconds) for the phone to detect whether the primary server is available by sending the registration request after the secondary server takes over the call control. If the value is configured to 0, the IP phone does not detect the primary server until a failover occurs.	

Y ranges from 1 to 2.)		<p>When the value is configured between 1 and 59, the phone automatically sets the time interval to 60.</p> <p>Note: This parameter is only valid when the parameter "account.X.sip_server.Y.failback_mode" is configured to 3.</p> <p>The default value is 3600.</p>	
<p>account.x.sip_server.y.register_on_enable =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.</p> <p>Y ranges from 1 to 2.)</p>	0 or 1	<p>It enables or disables the IP phone to register to the secondary server before sending requests to the secondary server in the failover mode.</p> <p>0-Disabled</p> <p>1-Enabled</p> <p>The default value is 0.</p>	
<p>account.X.outbound_proxy_enable =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	0 or 1	<p>It enables or disables the phone to use the outbound proxy server for account X.</p> <p>0-Disabled</p> <p>1-Enabled</p> <p>The default value is 0.</p>	Account->Register ->Enable Outbound Proxy Server
<p>account.X.outbound_host =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	IP address or domain name	<p>It configures the domain name or IP address of the outbound proxy server for account X.</p> <p>The default value is blank.</p>	Account->Register ->Outbound Proxy Server
<p>account.X.outbound_port =</p> <p>(SIP-T46G: X</p>	Integer from 1 to 65535	<p>It configures the port of the outbound proxy server for account X.</p> <p>The default value is 5060.</p>	Account->Register ->Outbound Proxy Server->Port

<p>ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>			
<p>voice_mail.number.X =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	String	<p>It configures the voice mail number for account X.</p> <p>The default value is blank.</p>	Account->Advanced->Voice Mail
<p>account.X.proxy_require =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	String	<p>It configures the proxy server for account X.</p> <p>The default value is blank.</p>	Account->Basic->Proxy Require
<p>account.X.sip_trust_ctrl =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	0 or 1	<p>It enables or disables the phone to only accept the message from the trusted server for account X.</p> <p>0-Disabled</p> <p>1-Enabled</p> <p>The default value is 0.</p>	
<p>account.X.anonymous_call =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	0 or 1	<p>It enables or disables anonymous call feature for account X.</p> <p>0-Disabled</p> <p>1-Enabled</p> <p>The default value is 0.</p>	Account->Basic->Anonymous Call
<p>account.X.anonymous_call_oncode =</p>	String	<p>It configures the code for activating anonymous call feature for account X.</p> <p>The default value is blank.</p>	Account->Basic->Anonymous Call->On Code

(SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)			
account.X.anonymous_call_offcode = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	String	It configures the code for deactivating anonymous call feature for account X. The default value is blank.	Account->Basic-> Anonymous Call-> Off Code
account.X.reject_anonymous_call = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0 or 1	It enables or disables anonymous call rejection feature for account X. 0 -Disabled 1 -Enabled The default value is 0.	Account->Basic-> Anonymous Call Rejection
account.X.anonymous_reject_oncode = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	String	It configures the code for activating anonymous call rejection feature for account X. The default value is blank.	Account->Basic-> Anonymous Call Rejection-> On Code
account.X.anonymous_reject_offcode = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	String	It configures the code for deactivating anonymous call rejection feature for account X. The default value is blank.	Account->Basic-> Anonymous Call Rejection-> Off Code

1 to 3.)			
account.X.dnd .enable = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0 or 1	It enables or disables DND feature for account X when the DND mode is configured to "custom". 0 -Enabled 1 -Disabled The default value is 0.	Features->Forward & DND->DND ->Account
account.X.dnd .on_code = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	String	It configures the DND on code for account X when the DND mode is configured to "custom". The default value is blank.	Features->Forward & DND->DND-> DND On Code
account.X.dnd .off_code = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	String	It configures the DND off code for account X when the DND mode is configured to "custom". The default value is blank.	Features->Forward & DND->DND ->DND Off Code
account.X.alw ays_fwd.enab le = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0 or 1	It enables or disables always forward feature for account X when the call forward mode is configured to "custom". 0 -Enabled 1 -Disabled The default value is 0.	Features->Forward & DND->Always Forward->On/Off
account.X.alw ays_fwd.targe t = (SIP-T46G: X ranges from 1 to 6.	String	It configures the target number the phone forwards all incoming calls to for account X. The default value is blank.	Features->Forward & DND->Always Forward->Target

SIP-T42G/T41P: X ranges from 1 to 3.)			
account.X.bus y_fwd.enable = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0 or 1	It enables or disables busy forward feature for account X when the call forward mode is configured to "custom". 0 -Disabled 1 -Enabled The default value is 0.	Features->Forward & DND->Busy Forward->On/Off
account.X.bus y_fwd.target = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	String	It configures the target number the phone forwards incoming calls to when busy for account X when the call forward mode is configured to "custom". The default value is blank.	Features->Forward & DND->Busy Forward->Target
account.X.tim eout_fwd.ena ble = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0 or 1	It enables or disables no answer forward feature for account X when the call forward mode is configured to "custom". 0 -Disabled 1 -Enabled The default value is 0.	Features->Forward & DND->No Answer Forward-> On/Off
account.X.tim eout_fwd.targ et = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	String	It configures the target number the phone forwards incoming calls to after a period of ring time for account X when the call forward mode is configured to "custom". The default value is blank.	Features->Forward & DND->No Answer Forward-> Target

<p>account.X.timeout_fwd.time out =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	<p>Integer</p> <p>from 0 to 20</p>	<p>It configures the waiting ring time before forwarding for account X when the call forward mode is configured to "custom".</p> <p>The default value is 2.</p>	<p>Features->Forward & DND->No Answer Forward->After Ring Times</p>
<p>account.X.always_fwd.off_code =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	<p>String</p>	<p>It configures the always forward off code for account X when the call forward mode is configured to "custom".</p> <p>The default value is blank.</p>	<p>Features->Forward & DND->Always Forward ->Off Code</p>
<p>account.X.always_fwd.on_code =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	<p>String</p>	<p>It configures the always forward on code for account X when the call forward mode is configured to "custom".</p> <p>The default value is blank.</p>	<p>Features->Forward & DND->Always Forward->On Code</p>
<p>account.X.busy_fwd.off_code =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	<p>String</p>	<p>It configures the busy forward off code for account X when the call forward mode is configured to "custom".</p> <p>The default value is blank.</p>	<p>Features->Forward & DND->Busy Forward ->Off Code</p>
<p>account.X.busy_fwd.on_code =</p> <p>(SIP-T46G: X</p>	<p>String</p>	<p>It configures the busy forward on code for account X when the call forward mode is configured to "custom".</p> <p>The default value is blank.</p>	<p>Features->Forward & DND->Busy Forward->On Call</p>

ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)			
account.X.timeout_fwd.off_code = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	String	It configures the no answer forward off code for account X when the call forward mode is configured to "custom". The default value is blank.	Features->Forward & DND->No Answer Forward ->Off Code
account.X.timeout_fwd.on_code = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	String	It configures the no answer forward on code for account X when the call forward mode is configured to "custom". The default value is blank.	Features->Forward & DND->No Answer Forward ->On Code
account.X.sip_listen_port = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	Integer from 1024 to 65535	It configures the local SIP port for account X. The default value is 5060.	Account-> Advanced->Local SIP Port
account.X.100rel_enable = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0 or 1	It enables or disables 100 reliable retransmission feature for account X. 0 -Disabled 1 -Enabled The default value is 0.	Account-> Advanced-> Retransmission

<p>account.X.subscribe_mwi =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	<p>0 or 1</p>	<p>It enables or disables the phone to subscribe the message waiting indicator for account X.</p> <p>0-Disabled</p> <p>1-Enabled</p> <p>The default value is 0.</p>	<p>Account-></p> <p>Advanced-></p> <p>Subscribe for MWI</p>
<p>account.X.subscribe_mwi_expires =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	<p>Integer</p> <p>from 0 to 84600</p>	<p>It configures the interval (in seconds) of MWI subscription for account X.</p> <p>The default value is 3600.</p>	<p>Account-></p> <p>Advanced->MWI Subscription Period (Seconds)</p>
<p>account.X.cid_source =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	<p>0, 1, 2, 3, 4 or 5</p>	<p>It configures the source caller identity for presentation when receiving an incoming call for account X.</p> <p>0-FROM</p> <p>1-PAI</p> <p>2-PAI-FROM</p> <p>3-PRID-PAI-FROM</p> <p>4-PAI-RPID-FROM</p> <p>5-RPID-FROM</p> <p>The default value is 0.</p>	<p>Account-></p> <p>Advanced->Caller ID Source</p>
<p>account.X.cid_source_privacy =</p>	<p>0 or 1</p>	<p>It enables or disables the phone to process the Privacy header in the 180 or 200 OK message.</p> <p>0-Disabled</p> <p>1-Enabled</p> <p>The default value is 1.</p>	
<p>account.X.cid_source_ppi =</p>	<p>0 or 1</p>	<p>It enables or disables the phone to process the P-Preferred-Identity header.</p> <p>0-Disabled</p> <p>1-Enabled</p> <p>The default value is 1.</p>	

<p>account.X.cp_source =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	0, 1 or 2	<p>It configures the source callee identity for presentation for account X.</p> <p>0-RPID-FROM</p> <p>1-Dialed Digits</p> <p>2-RFC4916</p> <p>The default value is 1.</p>	
<p>account.X.session_timer.enable =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	0 or 1	<p>It enables or disables the session timer for account X.</p> <p>0-Disabled</p> <p>1-Enabled</p> <p>The default value is 0.</p>	<p>Account-></p> <p>Advanced-></p> <p>Session Timer</p>
<p>account.X.session_timer.expires =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	<p>Integer</p> <p>from 30 to 7200</p>	<p>It configures the interval (in seconds) for refreshing the SIP session for account X.</p> <p>The default value is 1800.</p>	<p>Account-></p> <p>Advanced-></p> <p>Session Expires (30~7200s)</p>
<p>account.X.session_timer.refresher =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	0 or 1	<p>It configures the refresher of the session timer for account X.</p> <p>0-Uac</p> <p>1-Uas</p> <p>The default value is 0.</p>	<p>Account-></p> <p>Advanced-></p> <p>Session Refresher</p>
<p>account.X.enable_user_equal_phone =</p> <p>(SIP-T46G: X ranges from 1</p>	0 or 1	<p>It enables or disables the "user=phone" carried in the INVITE message for account X.</p> <p>0-Disabled</p> <p>1-Enabled</p>	<p>Account-></p> <p>Advanced->Send user=phone</p>

to 6. SIP-T42G/T41P: X ranges from 1 to 3.)		The default value is 0.	
account.X.srtp_encryption = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0, 1 or 2	It configures whether to use voice encryption service for account X. 0 -Disabled 1 -Optional 2 -Compulsory The default value is 0.	Account-> Advanced->RTP Encryption (SRTP)
account.X.ptime = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0 (Disabled), 10, 20, 30, 40, 50 or 60.	It configures the RTP packet time (in milliseconds) for account X. The default value is 20.	Account-> Advanced->PTime (ms)
account.X.bla_number = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	String	It configures the BLA number for account X. The default value is blank.	Account-> Advanced->BLA Number
account.X.bla_subscribe_period = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	Integer from 60 to 7200	It configures the period (in seconds) of BLA subscription for account X. The default value is 300.	Account-> Advanced->BLA Subscription Period
account.X.dialoginfo_callpickup =	0 or 1	It enables or disables the phone to pick up a call according to the SIP header of dialog-info for account X.	Account-> Advanced->Dialog Info Call

(SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)		0 -Disabled 1 -Enabled The default value is 0.	Pickup
account.X.group_pickup_code = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	String	It configures the group pickup code for account X. The default value is blank.	Account-> Advanced->Group Call Pickup Code
account.X.direct_pickup_code = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	String	It configures the directed pickup code for account X. The default value is blank.	Account-> Advanced-> Directed Call Pickup Code
account.X.auto_answer = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0 or 1	It enables or disables auto answer feature for account X. 0 -Disabled 1 -Enabled The default value is 0.	Account->Basic-> Auto Answer
account.X.missed_calllog = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0 or 1	It enables or disables the phone to record the missed calls of account X. 0 -Disabled 1 -Enabled The default value is 1.	Account->Basic-> Missed Call Log

<p>account.X.subscribe_mwi_to_vm =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	0 or 1	<p>It enables or disables the phone to subscribe to the voice mail for the message waiting indicator for account X.</p> <p>0-Disabled</p> <p>1-Enabled</p> <p>The default value is 0.</p>	<p>Account-></p> <p>Advanced-></p> <p>Subscribe MWI To Voice Mail</p>
<p>account.X.register_mac =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	0 or 1	<p>It enables or disables the phone to carry the MAC address in the REGISTER message for account X.</p> <p>0-Disabled</p> <p>1-Enabled</p> <p>The default value is 0.</p>	<p>Account-></p> <p>Advanced->SIP</p> <p>Send MAC</p>
<p>account.X.register_line =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	0 or 1	<p>It enables or disables the phone to carry the line number in the REGISTER message for account X.</p> <p>0-Disabled</p> <p>1-Enabled</p> <p>The default value is 0.</p>	<p>Account-></p> <p>Advanced->SIP</p> <p>Send Line</p>
<p>account.X.register_fail_retry_interval =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	Integer from 0 to 1800	<p>It configures the interval (in seconds) for the phone to retry to register account X when registration fails.</p> <p>The default value is 30.</p>	<p>Account-></p> <p>Advanced->SIP</p> <p>Registration Retry Timer (0~1800s)</p>
<p>account.X.conf_type =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P:</p>	0 or 2	<p>It configures the conference type for account X.</p> <p>0-Local Conference</p> <p>2-Network Conference</p> <p>The default value is 0.</p>	<p>Account-></p> <p>Advanced-></p> <p>Conference Type</p>

X ranges from 1 to 3.)			
account.X.conf_uri = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	String	It configures the network conference URI for account X. The default value is blank.	Account-> Advanced-> Conference URI
account.X.blf.subscribe_period = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	Integer from 30 to 2147483647	It configures the period (in seconds) of the BLF subscription for account X. The default value is 1800.	
account.X.blf.subscribe_event = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0 or 1	It specifies the BLF subscription type. 0 -Dialog 1 -Presence The default value is 0.	
account.X.out_dialog_blf_enable = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0 or 1	It enables or disables the phone to handle NOTIFY messages outside the BLF dialog. 0 -Disabled 1 -Enabled The default value is 0.	
account.X.subscribe_acd_expires =	Integer from 12 to 3600	It configures the period (in seconds) of ACD subscription for account X. The default value is 3600.	Account-> Advanced->ACD Subscrip Period

(SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)			(120~3600s)
account.X.sip_server_type = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0, 2, 4 or 6	It configures the SIP server type for account X. 0 -Default 2 -BroadSoft 4 -Cosmocom 6 -UCAP The default value is 0.	Account-> Advanced->SIP Server Type
account.X.signal_encode_key = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	String	It configures the key for the phone to encode the SIP signal with RC4 encryption algorithm for account X. The default value is blank.	Account-> Advanced->Signal Encode Key
account.X.music_server_uri = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	String	It configures the URI of the Music On Hold server for account X.	Account-> Advanced->Music Server URI
account.X.dtmf.type = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0, 1, 2 or 3	It configures the DTMF type for account X. 0 -INBAND 1 -RFC2833 2 -SIP INFO 3 -AUTO or SIP INFO The default value is 1.	Account-> Advanced->DTMF Type

account.X.dtmf.dtmf_payload = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	Integer from 96 to 127	It configures the RFC2833 payload for account X. The default value is 101.	Account-> Advanced->DTMF Payload Type (96~255)
account.X.dtmf.info_type = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	1, 2 or 3	It configures the DTMF info type when the DTMF type is configured as "SIP INFO" or "AUTO or SIP INFO" for account X. 1 -DTMF-Relay 2 -DTMF 3 -Telephone-Event The default value is 1.	Account-> Advanced->DTMF Info Type
account.X.nat.nat_traversal = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0 or 1	It enables or disables the NAT traversal for account X. 0 -Disabled 1 -STUN The default value is 0.	Account->Register ->NAT
account.X.nat.stun_server = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	IP address or domain name	It configures the domain name or IP address of the STUN server for account X. The default value is blank.	Account->Register ->STUN Server
account.X.nat.stun_port = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P:	Integer from 1 to 65535	It configures the port of the STUN server for account X. The default value is 3478.	Account->Register ->STUN Server ->Port

X ranges from 1 to 3.)			
<p>account.X.nat.udp_update_enable =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	0, 1, 2 or 3	<p>It enables or disables NAT keep-alive for account X.</p> <p>0-Disabled</p> <p>1-Default</p> <p>2-Options</p> <p>3-Notify</p> <p>The default value is 1.</p>	<p>Account-></p> <p>Advanced->Keep Alive Type</p>
<p>account.X.nat.udp_update_time =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	<p>Integer</p> <p>from 15 to 2147483647</p>	<p>It configures the keep-alive interval (in seconds) for account X.</p> <p>The default value is 30.</p>	<p>Account-></p> <p>Advanced->Keep Alive Interval (Seconds)</p>
<p>account.X.nat.rport =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	0 or 1	<p>It enables or disables NAT Rport feature for account X.</p> <p>0-Disabled</p> <p>1-Enabled</p> <p>The default value is 0.</p>	<p>Account-></p> <p>Advanced->Rport</p>
<p>account.X.advanced.timer_t1 =</p> <p>(SIP-T46G: X ranges from 1 to 6.</p> <p>SIP-T42G/T41P: X ranges from 1 to 3.)</p>	Float	<p>It configures the session timer T1 (in seconds) for account X.</p> <p>The default value is 0.5.</p>	<p>Account-></p> <p>Advanced->SIP Session Timer T1 (0.5~10s)</p>
<p>account.X.advanced.timer_t2 =</p>	Float	<p>It configures the session timer T2 (in seconds) for account X.</p> <p>The default value is 4.</p>	<p>Account-></p> <p>Advanced->SIP Session Timer T2</p>

(SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)			(2~40s)
account.X.advanced.timer_t4 = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	Float	It configures the session timer T4 (in seconds) for account X. The default value is 5.	Account-> Advanced->SIP Session Timer T4 (2.5~60s)
account.X.alert_info_url_enable = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0 or 1	It enables or disables the distinctive ring tones by the Alert-Info SIP header. 0 -Disabled 1 -Enabled The default value is 1.	Account-> Advanced-> Distinctive Ring Tones
account.X.ringtone.ring_type = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	Common, Ring1.wav, Ring2.wav, ... Ring8.wav	It configures a ringtone for account X. Example (configure Ring3.wav for account 1): account.1.ringtone.ring_type = Ring3.wav The default value is common. Note: Ring 6-8 are not applicable to the SIP-T42G/T41P IP phones.	Account->Basic-> Ring Type
account.X.codec.Y.payload_type = (SIP-T46G: X ranges from 1 to 6. Y ranges from 0 to 10. SIP-T42G/T41P:	PCMU PCMA G729 G722 G723_53 G723_63 G726_16	It configures the codec for account X. The default value is: When Y=0, the default value is PCMU; When Y=1, the default value is PCMA; When Y=2, the default value is G723_53; When Y=3, the default value is	Account->Codecs

X ranges from 1 to 3. Y ranges from 0 to 13.)	G726_24 G726_32 G726_40 iLBC (not applicable to SIP-T42G/T41P only) GSM (not applicable to SIP-T46G)	G723_63; When Y=4, the default value is G729; When Y=5, the default value is G722; When Y=6, the default value is iLBC; When Y=7, the default value is G726_16; When Y=8, the default value is G726_24; When Y=9, the default value is G726_32; When Y=10, the default value is G726_40; When Y=13, the default value is GSM. Example: account.1.codec.1.payload_type = PCMA	
account.X.codec.Y.enable = (SIP-T46G: X ranges from 1 to 6. Y ranges from 0 to 10. SIP-T42G/T41P: X ranges from 1 to 3. Y ranges from 0 to 13.)	0 or 1	It enables or disables the specified codec for account X. 0 -Disabled 1 -Enabled Example: account.1.codec.1.enable = 1 This means that the codec PCMA is enabled on the phone.	Account->Codecs
account.X.codec.Y.priority = (SIP-T46G: X ranges from 1 to 6. Y ranges from 0 to 10. SIP-T42G/T41P: X ranges from 1 to 3. Y ranges from 0 to 13.)	Integer from 0 to 13	It configures the priority of the enabled codec for account X. Example: account.1.codec.1.priority = 2 This means that the priority of the codec PCMA is 2.	Account->Codecs
account.X.codec.Y.rtpmap =	Integer from 0 to 127	It configures rtpmap of the audio codec for account X.	

(SIP-T46G: X ranges from 1 to 6. Y ranges from 0 to 10. SIP-T42G/T41P: X ranges from 1 to 3. Y ranges from 0 to 13.)			
account.X.unregister_on_reboot = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0 or 1	It enables or disables the phone to de-register account X before reboot. 0 -Disabled 1 -Enabled The default value is 0.	Account-> Advanced-> Unregister When Reboot
account.X.compact_header_enable = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0 or 1	It enables or disables the phone to support compact SIP header for account X. The default value is 0.	
account.X.music_on_hold_type = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0 or 1	It configures the way on how the phone processes Music On Hold when placing an active call on hold. 0 -Calling the music server before holding 1 - Calling the music server after holding The default value is 1.	
account.X.acd.enable = (SIP-T46G: X ranges from 1	0 or 1	It enables or disables ACD feature for account X. 0 -Disabled 1 -Enabled	

to 6. SIP-T42G/T41P: X ranges from 1 to 3.)		The default value is 0.	
account.X.acd .available = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0 or 1	It enables or disables the phone to display the available and unavailable soft keys after the phone logs into the ACD system. 0 -Disabled 1 -Enabled The default value is 0.	
account.X.acd .unavailable_r eason_enable = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0 or 1	It enables or disables the call center unavailable reason code feature. 0 -Disabled 1 -Enabled The default value is 0.	
account.X.acd .initial_state = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	1 or 2	It specifies the initial call center agent state. 1 -Available 2 -Unavailable The default value is 1.	
account.X.stat ic_cache_pri = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0 or 1	It configures whether preferentially to use the DNS cache for domain name resolution of the SIP server. 0 -Use Domain name server preferentially 1 -Use DNS cache preferentially The default value is 1.	

account.X.picture_info_enable = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0 or 1	It enables or disables the phone to download the picture information. 0 -Disabled 1 -Enabled The default value is 0. It is not applicable to SIP-T42G and SIP-T41P IP phones.	
account.X.init_register_auth_enable = (SIP-T46G: X ranges from 1 to 6. SIP-T42G/T41P: X ranges from 1 to 3.)	0 or 1	It enables or disables the phone to carry the authentication header in the first REGISTER message when registering an account. 0 -Disabled 1 -Enabled The default value is 0.	